

Canon EOS DIGITAL

For Professionals



Canon
*image*ANYWARE

1-800-OK-CANON
www.canoneos.com

Canon U.S.A., Inc.
One Canon Plaza
Lake Success, NY 11042 U.S.A.

Canon Canada, Inc.
6390 Dixie Road
Mississauga, Ontario L5T 1P7 Canada

Canon Latin America, Inc.
703 Waterford Way, Suite 400
Miami, FL 33126 U.S.A.

Canon Mexicana, S. de R.L. de C.V.
Blvd. Manuel Ávila Camacho No. 138, Piso 17
Col. Lomas de Chapultepec
C.P. 11000 México, D.F. México

0127W563 10/08

©2008 CANON U.S.A., INC.
PRINTED IN U.S.A.

Canon EOS: Power in Professional Hands.

Professional photographers do their homework to make sure they choose the best tools for the job. That's why today, more pros depend on Canon EOS than any other digital SLR system. The EOS System has what it takes to deliver brilliant results in every imaginable shooting situation—a camera system so advanced that the technology becomes an unconscious extension of the mind's eye. And as digital possibilities heighten expectation and demand, Canon innovations continue to provide cutting-edge solutions that redefine imaging. From an unmatched range of camera bodies, world-renowned EF lenses, sophisticated Speedlite flashes, and numerous other powerful system options and accessories... to compact cameras, video camcorders, professional printers, and even educational events and publications... the extended Canon EOS System family of products and services is, more than ever, the clear choice of demanding professionals.



EOS-1Ds Mark III

The Featured Professionals

LARGE PRODUCT



Gil Smith

Explorer of Light

The Stuff of Dreams

Gil Smith is an internationally recognized advertising photographer specializing in high-action automotive and sports-industry images. An innovator in live and simulated-action photography, he has created dramatic campaigns for high-visibility American, European, and Japanese auto manufacturers and sports-oriented clients. Gil depends on the "big picture" capabilities of Canon EOS DSLRs, which give him the pixel count and quality he needs to create the bold images of dreams.

BEAUTY



John Huba

PrintMaster

The Coordinated Canon Workflow

John Huba came to New York City in his early twenties, seeking a career in fashion photography. He has since established himself as a sought-after portrait and editorial photographer, working in his studio and traveling all over the globe to capture magical images. With a keen appreciation of the simplicity afforded by a coordinated workflow, John keeps it all in the Canon family to ensure a smooth transition from capture to print.

LIFESTYLE



Paul Aresu

Explorer of Light

Shooting Connected Without Wires

Paul Aresu has been creating images for the past two decades and, today, is one of New York's most successful commercial photographers. His clientele currently includes prestigious companies, such as *Nike*, *Verizon*, *Guinness*, and *Mary Kay Cosmetics*. Having battled the tangle of sync cords, firewire and USB cables, Paul takes full advantage of the wireless capabilities provided by the EOS System to dramatically streamline his setups and workflow.



Get the Big Picture and the Smallest Detail




The EOS-1Ds Mark III 21.1-megapixel full-frame CMOS sensor delivers a high-resolution image of exacting precision, yielding a whopping 60MB file in Adobe® Photoshop®, with unprecedented data density for enhanced large-output capabilities and post-processing cropping flexibility. Actual size shown above.


Incomparable Canon Full-Frame CMOS Technology

The EOS-1Ds Mark III incorporates a Canon CMOS sensor, which delivers approximately 21.1 effective megapixels (5616 x 3744 pixels). The recording area of the sensor is 36 x 24mm, which is equivalent to the full-frame size of the 35mm film format. Compared to typical smaller digital camera sensors, the Canon full-frame sensor can accom-


modate a tremendous pixel count while maintaining larger individual pixel site size. Larger sites improve light gathering capability, enabling the sensor to produce a cleaner, more noise-free image.

EOS Digital SLR cameras with full-frame sensors let you use interchangeable lenses exactly as you would with 35mm film SLR cameras. They let photographers use the entire range of superb Canon EF lenses without a conversion factor, making it possible to take full advantage of the specific optical characteristics for which the lenses were designed. This is an important benefit for photographers who have sizable EF lens collections. 


Ultra-High-Resolution Image Capture

The 21.1 effective megapixels full-frame sensor captures images with stunning detail and precision. The resulting high-resolution image files ensure exceptional reproduction quality, with generous data density for enhanced large-output capabilities and post-processing cropping flexibility. 

The Canon CMOS Advantage

Canon CMOS sensors—designed and manufactured by Canon for exclusive use in Canon digital cameras—provide a number of important advantages over sensors typically found in other digital cameras: Their significantly reduced power consumption helps extend battery life and eliminates performance problems related to increased heat and noise. They deliver fast operation, taking full advantage of multi-channel architecture to provide unprecedented combinations of high resolution and high-speed image capturing performance. In addition, a multi-layer low-pass filter is placed in front of the sensor to isolate false colors that the sensor may detect. Canon CMOS sensors also incorporate a novel noise reduction system that records the noise of each pixel prior to exposure then automatically subtracts that noise. Lauded by the best in the business, Canon's CMOS sensors deliver outstanding resolution and signal purity, making them ideal for the most critical photographic applications. 

Extended RAW Recording Capabilities

The EOS-1Ds Mark III can capture RAW and sRAW (Small RAW) images. This added versatility is ideal for photographers who prefer the control afforded by RAW capture in shooting situations that do not require the camera's full resolution capability. Options are also provided for simultaneous RAW+JPEG and sRAW+JPEG recording with an extensive choice of JPEG sizing options. 

Superior Color Tonality

The EOS-1Ds Mark III employs superior 14-bit converters to process the output of the imaging sensor. Each color channel provides 16,384 separate steps of brightness, from darkest to lightest. This ensures smoother tonal transitions and more natural gradations. 16,384 distinct tones can be recorded in each color channel, with every click of the shutter—even JPEG images start using 14 bits of tonal data!



“As photographers, we dream and produce images. Canon has also dreamed to give us the most powerful imaging tool in the world today with the Canon EOS-1Ds Mark III, its Dual “DIGIC III” Image Processors, and an astounding 21.1-megapixel full-frame CMOS sensor that makes your image pop off the page like this one.”

Gil Smith
Explorer of Light

Digital Capture Redefined

Once in a while a new tool comes along that recalibrates our capabilities... a technological tour de force that forever changes our perception of what is and is not possible... a professional instrument that expands the boundaries of creative communication. The Canon EOS-1Ds Mark III is just such a tool. True to the EOS-1 legacy, this remarkable camera redefines the state of the DSLR (Digital Single-Lens-Reflex) art in no uncertain terms.

LANDSCAPE



Vincent Isola
PrintMaster

Detail and Tonality

Vincent Isola has won numerous awards for his work and teaches digital photography, printing, and lighting techniques to photographers throughout the country. His work and articles have been featured in many prestigious publications, including *Architectural Digest*, *Designer's Illustrated*, *The Professional Photographer*, *Studio Photography*, and *Shutterbug*. An accomplished fine-art/landscape photographer, Vin counts on Canon for rugged reliability and uncompromised image quality.

SMALL PRODUCT



Michel Tcherevkoff
Explorer of Light | PrintMaster

A Superior Creativity Tool

The recipient of more than a hundred awards for creativity, Michel Tcherevkoff has captured images and exhibited his work around the globe. He is known for his unique ability to create visual metaphors for advertising, corporate, design, and editorial clients. His signature style is “reality with a twist”—finding the extraordinary in the ordinary. For Michel, the EOS System stands alone as a photographic tool, enabling him to experiment with design and color as no other camera system.

ARCHITECTURE



Norman McGrath
Explorer of Light

Specialty Lenses for Specialized Shooting

Educated as an engineer, London-born photographer Norman McGrath transitioned into his career as an architectural photographer after moving to New York in 1956. His work has appeared in every major architectural publication worldwide and shooting assignments and workshops have taken him everywhere. Norman credits Canon and the EOS System's ability to deliver images, at one time only possible with more cumbersome 4x5 view cameras.

ASTRONOMY



Jennifer Wu

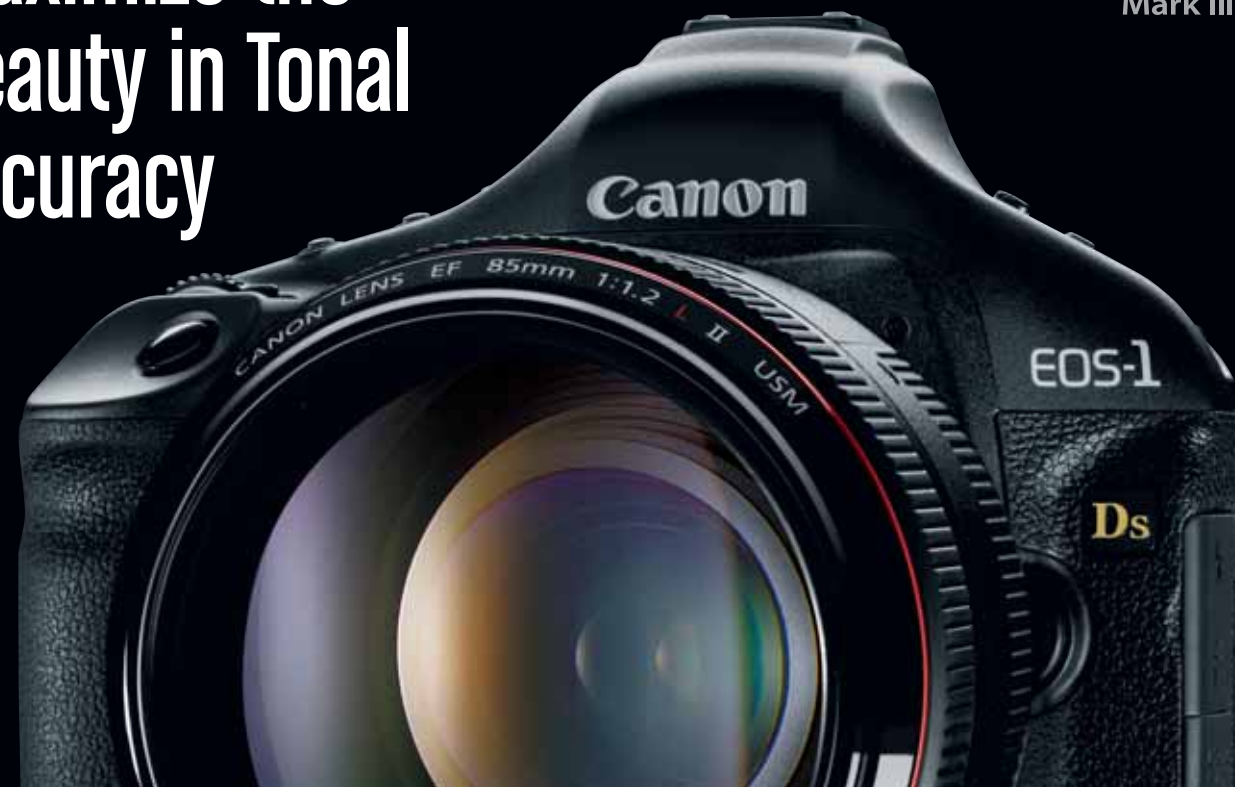
Beauty in the Eye of the Photographer

Award-winning nature photographer Jennifer Wu travels extensively throughout the United States and Europe to capture her striking images. Her commercial work has appeared in numerous local, national, and international publications. Jennifer's lifelong quest to capture the elusive and unrecognized beauty in nature pushes her to ever more challenging adventures. The Canon EOS System is her choice for recording those magical moments.



Camera: EOS-1Ds Mark III
Lens: EF 50mm f/1.2L USM
©2008 John Huba All Rights Reserved

Maximize the Beauty in Tonal Accuracy



BEAUTY

EOS-1Ds
Mark III



Superb Color Accuracy

The combination of advanced technologies embodied in the Canon CMOS sensor and the Dual “DIGIC III” Image Processors enable digital capture of unprecedented quality. Color richness and accuracy are outstanding thanks to a multi-layer low-pass filter in front of the sensor that isolates



Dual “DIGIC III” Image Processors

false colors. With the low-noise performance of the Canon CMOS sensor, captured images rival the rich, silky-smooth quality that exceeds the performance of the finest-grain color films. 48

Advanced 14-bit A/D Conversion

The EOS-1Ds Mark III employs 14-bit converters to process the output of the imaging sensor. Compared to the 12-bit converters used in most digital cameras, the Canon design ensures smoother tonal transitions, more natural gradations, and superior color fidelity. RAW images are recorded at 14 bits so that processed 16-bit TIFF images contain the full range of tonal values captured by the sensor.

Numerous Recording Options

The EOS-1Ds Mark III provides a versatile range of recording quality options, enabling photographers to select optimal file sizes and resolutions for any given job. Multiple compression rates are available via the menu. All quality level combinations, including JPEG, RAW, sRAW, RAW+JPEG, and sRAW+JPEG can also be accessed directly using the Quality button and the Quick Control Dial. 47



Picture Style

The myriad features and settings available to the digital SLR user can be daunting. Even the most proficient professional might occasionally have doubts as to whether all of the camera settings are optimal for the shot. The ingenious Canon Picture Style feature comes to the rescue, providing a number of user-friendly presets that eliminate the need to make numerous individual changes to camera settings. They enable the photographer to make optimal choices based simply on the type of shooting. The Picture Style feature is flexible, allowing you to fine-tune individual camera settings—such as sharpening, contrast, color tone, and saturation—as desired.



Picture Style – Portrait

“The EOS System has always been my choice for location shooting, however when photographing in-studio, I turned to medium format. With the EOS-1Ds Mark III and it’s phenomenal 21.1-megapixel sensor, I have the perfect camera for both studio and location.”

John Huba
PrintMaster

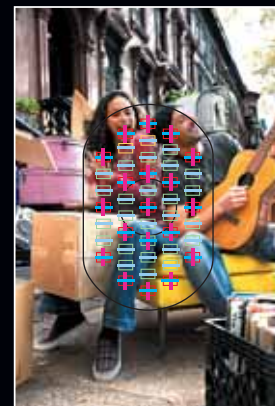


Camera: EOS-1Ds Mark III
Lens: EF 24-70mm f/2.8L USM
©2008 Paul Aresu All Rights Reserved

The Performance It Takes to Capture Life



LIFESTYLE
EOS-1Ds
Mark III



■ : Cross-type AF points
□ : Assist points (Not user-selectable)
— : f/2.8 sensors (Center AF point is f/4)
— : f/5.6 sensors

Incomparable EOS AF Technology

The EOS-1Ds Mark III incorporates an area-type AF sensor that provides increased pixel sensitivity, delivering markedly improved focusing performance in low-light situations. The area AF system has 19 selectable high-precision cross-type points plus 26 assist points for a total of 45 AF points.

The cross-type points are now not only positioned in the central area but also at the outer edges of the AF sensing area. The 26 additional assist points can be used to expand the coverage area of any manually selected primary AF point. Moreover, assist points can be used in the AI Servo AF mode and the One-Shot AF mode. The EOS-1Ds Mark III uses an entirely separate processing unit dedicated solely to AF operations, including driving the lens. This dedicated CPU design performs AF computations three times faster than in previous systems. Faster AF detection and computation make it possible for the EOS-1Ds Mark III to achieve its remarkably fast continuous shooting speed with full AI Servo tracking. 44



5 Frames Per Sec Rapid-Fire Shooting with Near-Instant Response

Advanced Canon CMOS technology, high-speed Dual "DIGIC III" Image Processors, and an AF system make the EOS-1Ds Mark III a remarkably fast camera, providing a maximum continuous shooting speed of 5 fps at full resolution. This is an extraordinary achievement when you consider the sheer amount of data that is generated by a 21.1-megapixel sensor. The EOS-1Ds Mark III is also an impressively responsive and nimble camera. It has a fast startup time of 0.2 second, and an extremely low lag time of 55 msec. (reducible to as low as 40 msec. via a Custom Function setting). 44

Extraordinary Tonal Precision

Canon CMOS sensors are capable of capturing images with exceptionally wide tonal range. In order to ensure that superior tonal precision is maintained throughout the remainder of the recording process, the EOS-1Ds Mark III employs 14-bit A/D converters to process the output of the sensor. Compared to the 12-bit converters used in most digital cameras, the Canon design ensures smoother tonal transitions and more natural gradations.

"This camera is a GIANT step up from the EOS-1Ds Mark II. The minute I viewed the EOS-1Ds Mark III capture, I immediately knew there was no need to use medium format digital cameras. The image quality is superior... why would I want to compromise my lens choices by using medium format!"



Paul Aresu
Explorer of Light



Camera: EOS-1Ds Mark III
Lens: TS-E 90mm f/2.8
©2008 Vincent Isole All Rights Reserved



Camera: EOS-1Ds Mark III
Lens: EF 14mm f/2.8L II USM
©2008 Vincent Isola. All Rights Reserved

Technology at One with Nature



LANDSCAPE
EOS-1Ds
Mark III

Rugged Weather-Resistant Design

The ideal professional camera is rugged yet not so massive as to compromise usability. The entire body of EOS-1Ds Mark III, including its internal chassis and mirror box, is



made of an advanced magnesium alloy. In lesser cameras, these parts are typically made of composite materials. Exceptionally strong and rigid, this alloy results in a camera that can truly withstand the punishment routinely meted out by many professional photographers. At the same time, it makes the camera lighter for improved handling and maneuverability.

Extensive weatherproofing ensures superior reliability, even when shooting in harsh environments. Rubber gaskets are used at nearly every joint and seam—including around the battery compartment cover, memory card door, and flash shoe—to keep out moisture and dust.



63-zone Metering System

A 63-zone metering sensor combined with sophisticated metering algorithms delivers more precise and stable exposure calculation over a wider range of shooting situations. Both available-light and flash metering performance have been improved. The metering sensor zones optimally match the 19 primary AF points. Photographers can choose from among automated evaluative, partial area (8.5% at the center), spot (2.4% at the center), multi-spot, and center-weighted average metering modes.

A Full-Frame Performance Standard

The CMOS sensor developed by Canon for the EOS-1Ds Mark III delivers approximately 21.1 effective megapixels (5632 x 3750 pixels). It makes possible ultra-high-resolution digital photography and the large amount of image data recorded result in enhanced large-output capabilities and unprecedented post-processing flexibility.

“The EOS-1Ds Mark III is a wonderful tool that has made photography fun again for me. It is light and rugged with a very long battery

life, all very important features in my back-pack. It provides me with a similar experience to shooting with my 4 x 5 camera, without the bulk, weight and dark cloth. Most importantly, the image quality is superb with fine detail and smooth continuous tones apparent throughout the file. Kudos!”

Vincent Isola
PrintMaster

Dependable, Repeatable High Image Quality



The Wireless File Transmitter WFT-E2A integrates elegantly with the EOS-1Ds Mark III, is powered by the camera body, and is durable and weather-resistant as the camera itself.



with 10x Magnification

Large 3.0" LCD Monitor with Live View Function

The 3.0-inch LCD monitor on the EOS-1Ds Mark III provides the photographer with a large, bright, detailed view of

images and graphical data. The bigger image area makes it easier than ever to confirm capture, check memory card contents, confirm shooting parameters, and access all menu options.

Moreover, the EOS-1Ds Mark III features a sophisticated Live View Function, which makes the 3.0-inch LCD monitor a real-time finder. When the Live View Function is enabled, the reflex mirror is locked up and the shutter opened. The image output from the CMOS sensor will be displayed in real time on the LCD monitor at 100% coverage. A selectable portion of the image can be magnified by 5x or 10x to aid in precise manual focusing. Manual focus, exposure check, composing, and shooting can all be accomplished in this mode.

Live View Function is convenient for tripod-mounted shooting, macro work, and other situations in which it would be a physical strain to keep the eye at the viewfinder. The Live View Function image can also be displayed on a TV monitor, which is ideal for showing images, as they are being composed, to clients and portrait subjects. **49**



Highlight Tone Priority: ON



Highlight Tone Priority: OFF

Highlight Tone Priority

Activated via a Custom Function, the Highlight Tone Priority mode employs sophisticated processing algorithms to preserve greater detail in image highlight areas—a perennial problem for digital photographers, especially those who work in bright sunlight or contrasty studio lighting. Highlight Tone Priority actually expands the available range of capture in the highlights, yet it exacts no penalties in either shadow detail or camera performance. It benefits photographers who shoot RAW images as well as those who rely on in-camera processing. **48**

21.1 MEGA
PIXELS
CMOS

Stunning Image Quality

The EOS-1Ds Mark III features a Canon full-frame 21.1-megapixel CMOS sensor.

Compared to typical smaller digital camera sensors, the Canon full-frame sensor can accommodate a tremendous pixel count while maintaining larger individual pixel site size. Larger sites improve light gathering capability, enabling the sensor to produce a cleaner, more noise-free image. The Canon full-frame sensor thus delivers ultra-high-resolution images of exacting precision with unrivaled color richness and tonal accuracy. **42**

“The EOS-1Ds Mark III is great! The ability to capture fine image detail is of paramount importance



in my work, and this camera truly delivers.

What also impressed me is the precise rendering of tonal nuance over a wide range of light values, which is equally important in my images. This camera features—like the 3.0-inch LCD, Live View Function, and improved wireless capabilities—are exactly what I've wanted for tabletop work. A superior tool... a joy to use.”

Michel Tcherevkoff
Explorer of Light | PrintMaster



Camera: EOS-1Ds Mark III
Lens: TS-E 24mm f/3.5L
©2008 Norman McGrath. All Rights Reserved

Record with Precision and Artistry

ARCHITECTURE

EOS-1Ds
Mark III



Canon EOS Tilt-Shift Lenses

Canon TS-E lenses are capable of tilt and shift movements that normally require the use of technical view cameras. Tilt movements alter the angle of the plane of focus between the lens and the focal plane, making broad depth-of-field possible even at wider apertures. These capabilities greatly expand the versatility of the EOS System and are ideal for specialized applications, such as architectural photography.

The Full-Frame Optical Advantage

DSLR cameras with smaller sensors, by comparison, require a focal length conversion factor that effectively narrows the field of view as though you've added a telephoto converter. EOS Digital SLR cameras with full-frame sensors let photographers use the entire range of superb Canon EF lenses without a conversion factor, making it possible to take full advantage of the specific optical characteristics for which the lenses were designed. 42

63-zone Metering System

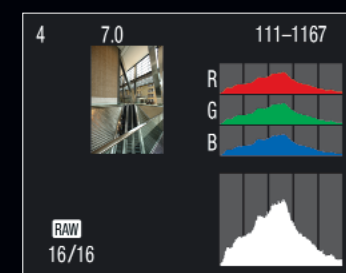
A 63-zone metering sensor combined with sophisticated metering algorithms delivers more precise and stable exposure calculation over a wide range of shooting situations. Photographers can choose from among automated evaluative, partial area (8.5% at the center), spot (2.4% at the center), multi-spot, and center-weighted average metering modes. 45

Highlight Tone Priority

The Highlight Tone Priority mode can be activated via Custom Function to help preserve greater detail in image highlight areas. It actually expands the available range of capture in the highlights, yet it exacts no penalties in either shadow detail or camera performance. It benefits nearly all professionals—for example, a nature photographer shooting winter snow scenes, a wedding photographer seeking to preserve detail in the bride's dress, or an architectural photographer facing a high-contrast scene in bright sunlight. 48

Wide Dynamic Range

The outstanding image capture performance of the Canon full-frame CMOS sensor, the extended bit depth of the A/D converters, and the advanced design of the Dual



“DIGIC III” Image Processor ensure not only abundant detail but also superb dynamic range. The EOS-1Ds Mark III thereby

addresses a critical shortcoming among many of today's digital cameras. It is better able to capture a wide range of light values without blowing out highlights or losing shadow detail. Subtle tonal gradations are also more accurately recorded.

“I much enjoyed using the EOS-1Ds Mark III. It is a superb piece of equipment capable of holding its own when



compared to a 4 x 5 view camera. With its extraordinarily high resolution in combination with ease of operation, I predict this will become the tool of choice for many architectural photographers.”

Norman McGrath

Explorer of Light

Advanced Capabilities for Specialized Applications



Lenses and Accessories for High-Magnification Photography

Four Canon EF macro lenses, a Life-Size converter, two extension tubes, and three screw-on close-up lenses make the EOS System lineup a formidable tool for precision high-magnification photography, revealing detail undetectable by the unaided human eye. Macro Twin Lite and Ring Lite options provide superior close-up lighting solutions.



MP-E 65mm f/2.8

GPS Support for Field Work

The optional Wireless File Transmitter WFT-E2A (for EOS-1Ds Mark III and EOS-1D Mark III cameras), the WFT-E3A (for the EOS 40D) and the WFT-E4A (for EOS 5D Mark II) can communicate with compatible third-party GPS devices connected via USB. Latitude, longitude, altitude, and Universal Time are all recorded in each image's EXIF shooting data. This enables location coordinates to be recorded for each picture as it's taken.



Wireless File Transmitter WFT-E2A

Wide ISO Range

By combining the superb image capture capabilities of the Canon CMOS sensor with advanced data processing technologies, the EOS-1Ds Mark III offers an extraordinarily wide ISO range, making it possible to shoot even in previously impossible lighting conditions. The standard ISO

range of 100–1600 can be extended to a remarkable low end of 50 and a high end of 3200. More important, the low-noise performance at high ISO settings makes the entire range usable in real-world shooting situations.

Sophisticated Flash Capabilities

Canon E-TTL II technology incorporates distance information from compatible EF lenses to ensure the most precise flash exposure and deliver versatile lighting control. Canon EX series Speedlites provide advanced wireless and automatic multiple-flash capabilities to deliver superior lighting solutions for a wide variety of specialized shooting applications.



Wireless Speedlite Transmitter ST-E2

Integrated Cleaning System

Because professional photographers must change lenses in all kinds of adverse environments, Canon invented the Integrated Cleaning System, which uses ultrasonic vibration to remove dust that can settle on the sensor surface.



Self-Cleaning Sensor Unit

“On a recent trip to the White Mountains of California, the camera stood up to the high heat of the day, the bitter cold of nights and rain didn't faze the camera's weather sealing. The long battery life is essential for cold nights. Other cameras with shorter battery life give up during long exposures in low temperatures. The EOS-1Ds Mark III is the perfect camera for photographing nature and the stars.”

Jennifer Wu

EOS-1D Mark III

The Featured Professionals

WEDDING



**Michele
Celentano**

Explorer of Light

The Responsive, Reliable Problem-Solver

Michele Celentano quickly became one of the most successful wedding photographers in New York after graduating from the *Germain School of Photography at the Center for Media Arts* in New York City. With a style that expertly blends traditional and documentary photojournalism, Michele relies on the EOS System to master the challenges unique to wedding photography, freeing her to achieve her award-winning imagery.

CHILD PORTRAIT



Sandy Puc'

PrintMaster

The "On-Demand" Portable Studio

Sandy Puc', owner of Expressions by Sandy Puc' in Littleton, Colorado, is a nationally acclaimed photographer. She is a frequent contributor to magazines and print journals, and serves on the board of directors of the *Professional Photographers of America*. An expert environmental portrait photographer, Sandy needed a lightweight, portable imaging system that would withstand the rigors of mobile use. She found the perfect solution in the Canon EOS System.

SPORTS



**Peter
Read Miller**

Explorer of Light

He Shoots... and Scores

Peter Read Miller has worked for *Sports Illustrated* magazine as staff and contract photographer for over 20 years. He has more than 85 covers to his credit, and his work has also appeared in numerous other well-known publications. He is a frequent presenter at photography workshops throughout the U.S. Peter relies on the remarkable responsiveness and exceptional image quality of the EOS System to decisively capture the excitement and human drama of sports.

Extreme Performance with Speed

Professional photographers know what they want in a camera. Above all, the camera must be dependable, even in harsh environmental and handling conditions. The camera must be responsive, reacting instantly to the photographer's input. It must provide a sophisticated feature set that does not compromise operability. And, of course, it must deliver image quality beyond reproach. Today, professionals have a choice that meets these criteria as no other: the Canon EOS-1D Mark III. Redesigned and re-engineered from the ground up, Canon's feature-packed EOS is destined to become the "must have" Digital SLR for professionals.

PHOTOJOURNALISM



**Vincent
Laforet**

Explorer of Light | PrintMaster

Making the Impossible Possible

Vincent Laforet is a Pulitzer-prize-winning photographer. An accomplished photojournalist, his assignments have ranged from natural disasters and international conflicts to the Olympics. The Canon EOS System's advanced remote shooting capabilities, combining Live View Function and wireless data transfer functions, have added new tools to Vincent's arsenal, making possible image capture in previously impossible situations.

SMALL PRODUCT



**Arthur
Morris**

Explorer of Light

Dependable Shooting in the Wild

Arthur Morris is widely recognized as the world's premier bird photographer. His images are noted for both their artistic design and their technical excellence. More than 140 photo-illustrated articles by and about him have appeared in natural history, birding, and photographic magazines. The unpredictability of wildlife photography puts equipment to the test, and for Arthur the dependable choice is Canon.

ARCHITECTURE



Bruce Dorn

Explorer of Light | PrintMaster

Wireless Speedlite Lighting Solutions

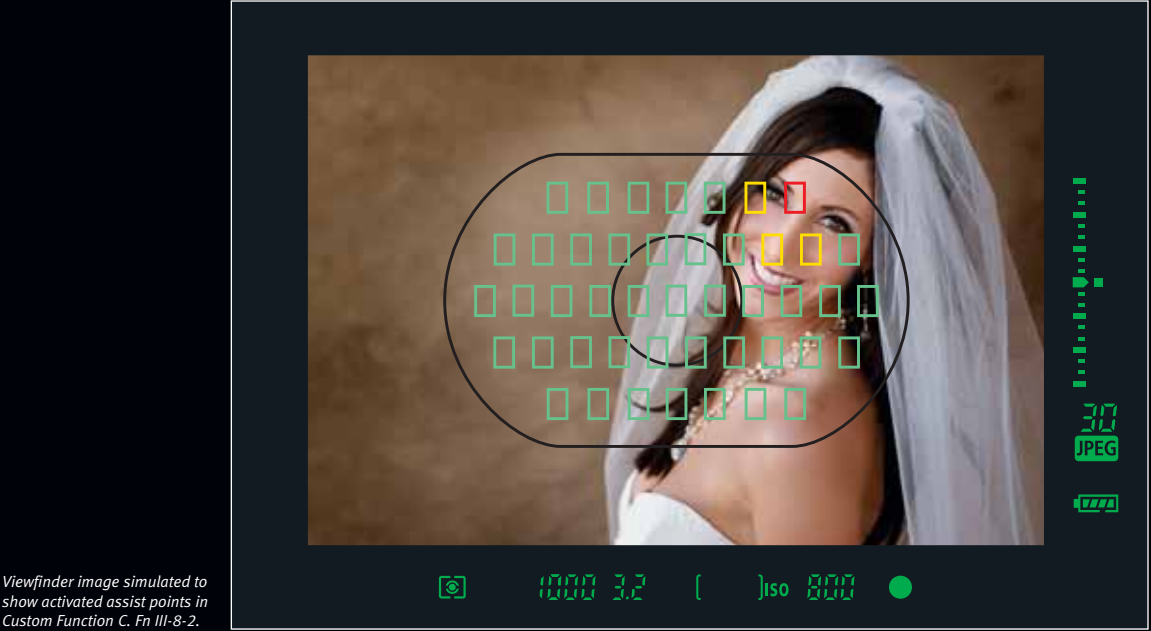
Bruce Dorn has spent decades traveling around the globe shooting assignments for a wide collection of clients. He is known for his expertise in state-of-the-art visual effects, his beautiful cinematography, and his innovative digital mixed-media artistry. A master "on location" photographer, Bruce makes ingenious use of wireless Canon Speedlites to augment available light or to quickly set up creative lighting "on the go" on challenging assignments.

Camera: EOS-1D Mark III
Lens: EF 24-105mm f/4L IS USM
©2008 Michele Celentano All Rights Reserved

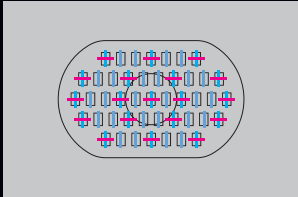


Camera: EOS-1D Mark III
Lens: EF 85mm f/1.2L II USM
©2008 Michele Celentano All Rights Reserved

Unprecedented Autofocus and Metering Performance



Viewfinder image simulated to show activated assist points in Custom Function C: Fv III-8-2.



— : f/2.8 sensors
(Center AF point is f/4)
|| : f/5.6 sensors

AF sensor features increased pixel sensitivity, which delivers markedly improved focusing performance in low-light situations. Compared to its predecessor, the EOS-1D Mark III delivers AF sensitivity one full stop better in dark scene areas. The area AF system has 19 selectable high-precision cross-type points plus 26 assist points for a total of 45 AF points. The 26 additional assist points can be used to expand the coverage area of any manually selected primary AF point. The cross-type points are not only positioned in the central area but also at the outer edges of the AF sensing area. The superior speed, precision, and low-light sensitivity of this new system are especially noticeable when shooting with longer Canon EF lenses. 44

63-zone Metering System

A 63-zone metering sensor combined with sophisticated metering algorithms deliver more precise and stable exposure calculation over a wide range of shooting situations. Both available light and flash metering performance have been improved. 45

Incomparable EOS AF Technology

The EOS-1D Mark III incorporates Canon autofocus (AF) technologies that bring about improvement in key performance areas. An area-type

Highlight Tone Priority

Activated via a Custom Function on the EOS-1D Mark III, the Highlight Tone Priority feature employs sophisticated processing algorithms to preserve greater detail in image highlight areas—a perennial problem for digital photographers, especially in bright sunlight or contrasty studio lighting. It actually expands the available range of capture in the highlights, yet it exacts no penalties in either shooting speed or burst rate. It benefits photographers who shoot RAW images as well as those who rely on in-camera processing. Highlight Tone Priority is a win-win proposition for professional photographers of nearly all disciplines. A sports photographer shooting white baseball uniforms in bright sunlight stands to benefit as much as a nature photographer shooting winter snow scenes or a wedding photographer seeking to preserve detail in the bride's dress. 48



Auto Crop to Various Aspect Ratios

Custom Function IV-14 provides a choice of six different aspect ratios corresponding to familiar medium- and large-format film sizes, such as 6 x 4.5, 6 x 6, 6 x 7, and 4 x 5. Vertical framing lines corresponding to the selected ratio will appear on the LCD during Live View Function. Moreover, the setting is saved with the image, enabling Digital Photo Professional 3.0 (and up) to automatically crop and display it in the selected aspect ratio.

“The EOS-1D Mark III is perfect for all serious wedding photographers. The camera is responsive so I never miss a shot. The battery lasted for almost 2000 images. Since I always use my LCD as a sales tool, the large 3-inch screen is very useful. This camera attacks many of the issues wedding photographers face today and makes our job that much easier!”

Michele Celentano
Explorer of Light



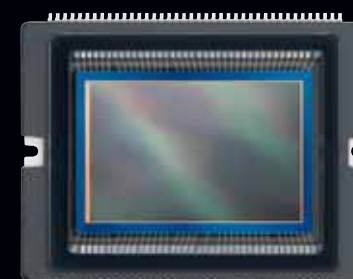
Camera: EOS-1D Mark III
Lens: EF 70–200mm f/2.8L IS USM
©2008 Sandy Puc* All Rights Reserved

Spectacular Image Quality



CHILD PORTRAIT

EOS-1D
Mark III



APS-H Size CMOS Sensor (Actual Size)

10.1 Megapixel CMOS Sensor

The EOS-1D Mark III features a 10.1-megapixel Canon CMOS sensor. It fulfills the primary functions of an imaging sensor—sensitive, accurate, noise-free capture of image data—with unprecedented performance. Its APS-H size imaging area results in what many professionals consider a very convenient 1.3x lens conversion (image area crop) factor in relation to full-frame 35mm film. Moreover, it incorporates Canon's CMOS engineering advances that significantly reduce digital noise—especially in shadow areas—and expand the useful ISO range. **42**

Exceptionally Wide ISO Range

Combining the superb image capture capabilities of the sensor with advanced Dual “DIGIC III” data processing, the EOS-1D Mark III offers a wide range of ISO settings. The standard range of 100–3200 can be extended to a remarkable 50–6400.* More importantly, the low-noise performance at high ISO settings makes the entire range usable in real-world shooting situations. **42**

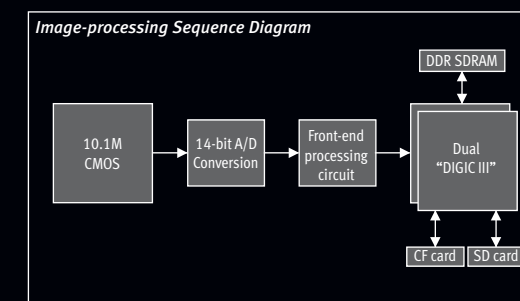


Dual “DIGIC III” Image Processors

The EOS-1D Mark III employs Canon's DIGIC III Image Processor, which maintains the extremely high image quality standard of its predecessor but, amazingly, attains even higher processing speed. Moreover, the EOS-1D Mark III uses not one, but two DIGIC III Image Processors operating in parallel to provide even greater data handling capability. The resulting imaging engine handles the huge amount of data from the 10.1-megapixel sensor with tremendous speed. There's never a need to lower image quality settings to achieve full 10 fps performance. **43**

14-Bit A/D Converters

The EOS-1D Mark III employs 14-bit converters to process the output of the imaging sensor. This ensures smooth



tonal transitions and natural gradations. RAW images are recorded at 14 bits so that the full range of tones captured by the sensor are available in 16-bit TIFF images.

* Standard output sensitivity. Recommended exposure index.

“The first time I picked up the Canon EOS-1D Mark III, I was thrilled about the way it felt



in my hands. This capture device is a true extension of my body. It has become a fluid part of my session workflow. It lets me work quickly and efficiently without worrying about how my equipment performs.”

Sandy Puc’
PrintMaster

A New Benchmark for Digital SLR Performance



Camera: EOS-1D Mark III
Lens: EF 70-200mm f/2.8L IS USM
©2008 Peter Read Miller All Rights Reserved



Blazing Shooting Speed

The EOS-1D Mark III is a blazingly fast AF digital SLR with an astounding 10 fps maximum continuous shooting speed. This achievement is even more remarkable when you consider the sheer amount of data processing associated with a 10.1-megapixel sensor and 14-bit per channel recording. **43**

Near-Instant Response

The EOS-1D Mark III is also incredibly responsive. It has the least lag time of any Canon EOS Digital SLR (55 msec., reducible to as low as 40ms via a Custom Function setting). At shutter speeds of 1/60 second and higher, the viewfinder blackout time is an ultra-short 80 msec. The EOS-1D Mark III also provides shutter speeds to 1/8000 second and flash sync speed has been improved to 1/300 second with Canon Speedlites.

Outstanding Burst Rate

The EOS-1D Mark III can capture up to 110 consecutive full-resolution JPEG images or up to 30 RAW images in a single continuous burst (at shooting speeds up to the full 10 fps). The continuous shooting rate can be

Maximum Burst* (10.1-megapixels/10 fps high-speed shooting)

110 frames – JPEG Large

30 frames – RAW

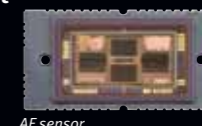
22 frames – RAW + JPEG Large

*The number of maximum burst apply to a 1GB Memory Card based on Canon's testing standard.

changed via a Custom Function from 2 fps to 10 fps for the high-speed range, while the low-speed range provides speeds from 1.3 fps to 9 fps. **43**

Separate AF Processing Unit

The EOS-1D Mark III uses an entirely separate AF processing unit, dedicated solely to AF operations, which includes driving the lens. This dedicated CPU design performs AF computations three times faster than any previous Canon EOS camera. The faster AF detection and computation make it possible for the EOS-1D Mark III to achieve its remarkable continuous shooting speed with full AI Servo tracking. Overall, the AF system is able to detect and react to a grossly out-of-focus image: the lens is more quickly driven to proper focus. It can also better adapt to sudden changes when tracking moving subjects. The EOS-1D Mark III area-type AF sensor also features increased pixel sensitivity, which delivers markedly improved focusing performance in low-light situations. **44**



AF sensor

Flexible, Customizable AF Coverage

The area-type AF system has 19 selectable high-precision cross-type points plus 26 assist AF points for a total of 45 AF points. The 26 additional assist AF points enable the user to expand the coverage area of any manually selected primary AF point. An assist AF point can be added to either side of a selected AF point, or a ring of six AF points can be activated around the selected AF point. **44**

"The Canon EOS-1D Mark III's lightning fast autofocus is spot on EVERY time! The camera responsiveness and 10 fps is amazing, and I can capture beautiful images with superb image quality, low-noise and with outstanding dynamic range—what more could you ask for?"



Peter Read Miller

Explorer of Light

A Bigger, Brighter, Better View of the World



Redesigned Viewfinder with 100% Coverage

The EOS-1D Mark III viewfinder employs a larger pentaprism for higher viewfinder magnification and a brighter, sharper viewfinder image. The design continues to provide full 100% coverage, which means what you see is what you get—no more, no less. The finder also features a high eyepoint design for easier viewing of the entire image and information area. Dioptic adjustment from -3 to +1 is included, as is an eyepiece shutter with high-visibility gray blades. 46

Large 3.0-inch LCD Monitor with Live View Function

The EOS-1D Mark III's LCD monitor is a full 3.0 inches diagonally. The large image area makes it easier than ever to confirm capture, check memory card contents, confirm shooting parameters, and access all menu options. Moreover, the EOS-1D Mark III features a sophisticated Live View Function, which makes the 3.0-inch LCD monitor a real-time finder. When the Live View Function is enabled, the reflex mirror is locked up and the shutter opened. The image output from the CMOS sensor will be displayed in real time on the LCD monitor at 100% coverage. A selectable portion of the image can be magnified by 5x or 10x to aid in precise manual focusing. Focus, exposure check, composing, and shooting can all be accomplished in this mode.



Live View Function

Live View Function is convenient for tripod-mounted shooting, macro work, and other situations in which it is a physical strain to keep the eye at the viewfinder. The Live View Function image can also be displayed on a TV monitor which is ideal for showing images, as they are composed, to clients and portrait subjects as well as viewing on a computer monitor. With Canon EOS Utility software installed on the computer, you can check and adjust focus and composition in real time. You can even manually focus and fire the camera remotely from the computer. Wireless remote capture is available by using the WFT-E2A. 49

Unparalleled Exposure Control

Canon EOS SLR cameras offer the photographer AE (auto exposure) with a wide range of metering options. Full-frame evaluative metering combines the EOS 63-zone sensor with focusing point data. Center-weighted metering is available for those who prefer a more traditional pattern. Partial metering limits readings to sensor zones in the center of the image area, concentrating readings in the central 13.5% of the picture area. Spot metering provides pinpoint readings and is suitable for advanced exposure control in tricky lighting conditions. And there's Multi-Spot metering, making it possible to take up to eight separate Spot readings, and have the camera automatically average them. 45



“One of my greatest challenges is to capture fresh, new images of events that have been photographed hundreds of times before, so I’m always on the lookout for new technology that might give me an edge. The EOS-1D Mark III’s Live View Function has the potential to revolutionize remote photography, allowing me to mount cameras in locations I could only have dreamed of in the past.”

Vincent Laforet
Explorer of Light | PrintMaster



Camera: EOS-1D Mark III
Lens: EF 70-200mm f/2.8L IS USM
©2008 Arthur Morris All Rights Reserved

Rock Solid Reliability

WILDLIFE
EOS-1D
Mark III



Lighter, Stronger, All-Metal Camera Body

The entire body of the EOS-1D Mark III, including its internal chassis and mirror box, is made of an advanced magnesium alloy. Exceptionally strong and rigid, this engineered body results in a camera that, even though lighter, can truly withstand punishment. 45

Weather-Resistant Design

Extensive weatherproofing ensures superior reliability, even when shooting in harsh environments. Rubber gaskets are used at nearly every joint and seam—including around the battery compartment cover, memory card door, and flash shoe—to keep out moisture and dust. 46

Unprecedented Shutter Durability

The EOS-1D Mark III features an improved heavy-duty shutter that has been durability tested to 300,000 cycles. The EOS-1D Mark III provides the strength, durability and reliability to give confidence even in the hardest shooting conditions. 46

Lithium-Ion Battery System

A lightweight, powerful lithium-ion rechargeable battery, Battery Pack LP-E4, was developed for the EOS-1Ds Mark III and EOS-1D Mark III. The LCD panel now provides an accurate reading of power percentage remaining in 1% increments, shots taken since last charge, and whether the battery should be reconditioned. 51

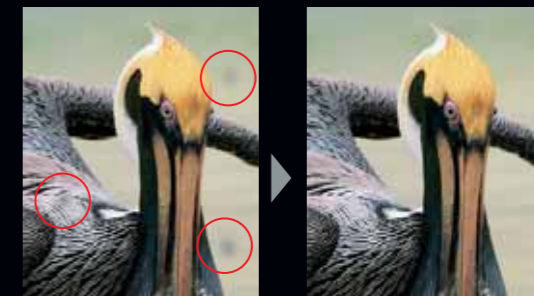
EOS Integrated Cleaning System

EOS Integrated Cleaning System

Photographers who must change lenses in dusty environments will find the advanced Canon EOS Integrated Cleaning System a tremendous time saver. It uses both mechanical and software methods to effectively deal with dust accumulation on the imaging sensor. First, dust that settles on the sensor surface is removed using ultrasonic vibration. This self-cleaning routine is automatically activated whenever the camera is powered on or off. (It can also be manually activated.) A special adhesive collar positioned around the sensor collects any loosened dust. Second, by photographing a plain white subject, the photographer can acquire data that can later be used by Canon's Digital Photo Professional (DPP) 3.0 software to automatically erase dust spots. 48



Self-cleaning Sensor Unit



Dust Delete Function. Images Simulated.

“Wow! Where to start... The EOS-1D Mark III's great autofocus system... its 14-bit capture that gives me smoother color gradations... its blazingly fast speed... high-ISO images that are almost totally devoid of noise... the EOS Integrated Cleaning System (not a single speck of sensor dust in a week of shooting out in the wild)... This camera lets me create images I had never before thought possible.”



Arthur Morris
Explorer of Light



Camera: EOS-1D Mark III
Lens: EF 24-70mm f/2.8L USM
©2008 Bruce Dorn All Rights Reserved

System Accessories that Support Superior Image Quality



E-TTL II Wireless Flash Control — Two units were designated as “slaves” while the third unit was assigned the role of “master.” By using the master Speedlite’s Custom Functions, I was able to defeat the master’s unwanted output and illuminate the scene solely by the light emitted from the two stand-mounted slave units. — Bruce Dorn

E-TTL II Flash Exposure Control

Extraordinary Canon E-TTL II autoflash exposure control technology takes advantage of the camera’s 63-zone metering sensor. With EX series Speedlites, a preflash occurs at shutter release. The camera performs instantaneous calculations based on readings from the preflash, ambient lighting conditions, and active focusing point information to determine the optimum flash output and exposure settings. The E-TTL II system also incorporates distance information from compatible EF lenses to ensure the perfect balance between ambient light and flash illumination, even with complicated lighting situations and compositions. **45**

Original Data Security Kit OSK-E3

This data verification kit can verify the originality and integrity of image data. It can also identify data elements (image pixels, EXIF text, GPS info, etc.) that have been altered. The OSK-E3 can also encrypt image files to prevent unauthorized viewing. **53**

Wireless File Transmitter WFT-E2A

The compact, versatile WFT-E2A integrates elegantly with the EOS-1D Mark III and provides the same degree of durability and weather-resistance. Wireless LAN environment setup is simple with either Windows Vista or Mac OS X operating systems, and a more efficient built-in antenna for transmission to a computer up to 492 feet (150m)* away. **52**

* With no obstructions between the transmitting and receiving antennas, and no radio interference. With a large, high-performance antenna attached to the wireless LAN access point.



WEDDING

EOS-1D
Mark III

Speedlite 580EX II

The high-durability, highly weather-resistant design of the 580EX II matches the EOS-1D Mark III, ensuring dependable performance even under the most adverse shooting conditions. As the flagship of the Speedlite lineup, the 580EX II incorporates numerous features requested by professional users, such as a metal shoe assembly, external sensor with thyristor control, and a PC socket on the flash for PC cord connection to a camera. Operability has been improved, as well: You can use the EOS-1D Mark III’s menus to set the Speedlite’s various options and Custom Functions. **52**

An Unmatched Selection of Focusing Screens

The EOS-1D Mark III is equipped with the Laser Matte Ec-C IV focusing screen, which provides superior optical performance. Background blur appears more natural, and graininess and flare are reduced. At the same time, the finder is brighter, especially at the edges and corners. Moreover, as with all EOS-1 series SLR cameras, the EOS-1D Mark III gives you a wide choice of interchangeable focusing screens. Currently, there are 11 optional screens.



Focusing Screen Ec-C IV

“The EOS-1D Mark III is both evolutionary and revolutionary. This camera feels familiar to the hand, but offers so much more ... like the Highlight Tone Priority custom function which significantly improves highlight detail. The 580EX II Speedlite is also an absolute flash of brilliance. Give me a couple of EOS-1D Mark III bodies, a few EF lenses and Speedlites, and I’ll happily tackle anything my demanding clients can throw at me.”

Bruce Dorn
Explorer of Light | PrintMaster

CANON DIGITAL
LEARNING CENTER

Visit the CDLC for further insight
BEYOND THE BROCHURE
www.usa.canon.com/beyondthebrochure

The Technology That Sets the Standard

Raising the Bar in Professional Cameras

EOS-1Ds Mark III: A Full-Frame Performance Standard

EOS-1Ds Mark III The EOS-1Ds Mark III incorporates Canon's CMOS sensor, which delivers approximately 21.1 effective megapixels (5616 x 3744 pixels). The recording area of the sensor is 36.0 x 24.0mm, which is equivalent to the full-frame size of the 35mm film format. Compared to typical smaller digital camera sensors, the Canon full-frame sensor can accommodate a tremendous pixel count while maintaining larger individual pixel site size. The EOS-1Ds Mark III can capture up to 56 consecutive full-resolution JPEG images or up to 12 RAW images in a single continuous burst (at 5 fps with 21.1-megapixel files). Larger sites improve light gathering capability, enabling the sensor to produce a cleaner, more noise-free image. The Canon full-frame sensor thus delivers high-resolution images of exacting precision, with unprecedented data density for enhanced large-output capabilities and post-processing cropping flexibility.

Full-frame sensors let photographers use the entire range of superb Canon EF lenses without a conversion factor, making it possible to take full advantage of the specific optical characteristics for which the lenses were designed. This is an important benefit for photographers who have a sizable EF lens collection.

EOS-1D Mark III: Extreme Performance with Speed

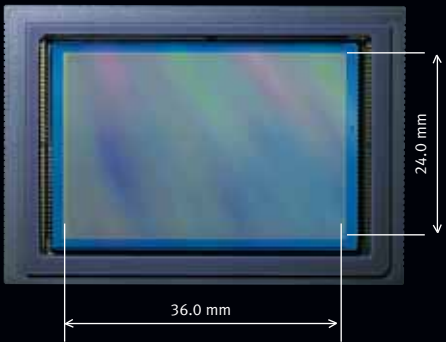
EOS-1D Mark III The 10.1-megapixel Canon EOS-1D Mark III shoots a blazing 10 frames per second, providing this speed even at the full 10.1-megapixel resolution. A redesigned shutter assembly, outstanding autofocus system and Dual "DIGIC III" Image Processors contribute to the landmark speed. Large size JPEGs at compression level 8 (of 10) can be fired in barrages of 110 frames (at 10 fps with 10.1-megapixel files). RAW images can be shot in bursts of 30.



©2008 Vincent Isala

Image Quality

Canon Exclusive CMOS Sensor



EOS-1Ds Mark III Full-frame CMOS Sensor (Actual Size)

Canon-designed and manufactured, CMOS single-plate sensor advances the state of the art in professional DSLR sensor design. The EOS-1Ds Mark III's full-frame sensor is the largest sensor that can be imaged in one pass using cutting edge semiconductor manufacturing technology. The imaging area of the CMOS sensor of EOS-1Ds Mark III measures 36.0 x 24.0mm (full-frame), and EOS-1D Mark III sensor size is 28.1 x 18.7mm (APS-H), appreciably larger than 22.2 x 14.8mm (APS-C).



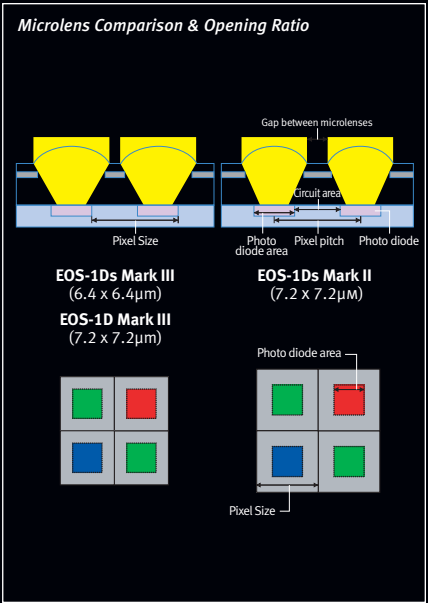
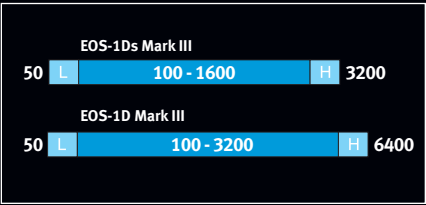
Effective Light-gathering

The EOS-1Ds Mark III sensor has 21.1 effective megapixels, and the EOS-1D Mark III sensor has 10.1 effective megapixels. Individual pixel size on the 1Ds Mark III's sensor is 6.4µm, and the EOS-1D Mark III's sensor is 7.2µm. Although the pixel size of the EOS-1D Mark III is 1 micron smaller than the pixel size of the previous models, the photodiode size of both sensors is the same, thanks to the optimized photodiode construction and more sophisticated processing of the EOS-1Ds Mark III and EOS-1D Mark III.

By optimizing the gap between the on-chip microlenses and improving the fill factor (photodiode area divided by total pixel size) of each pixel, light-gathering efficiency has been improved.

Wide ISO Range

Combining the superb image capture capabilities of the sensor with advanced Dual "DIGIC III" Image Processors, the EOS-1D Mark III offers



wide ISO range of 100–3200, can be extended to a remarkable 50–6400.*

More importantly, the low-noise performance at high ISO settings makes the entire range usable in real-world shooting situations.

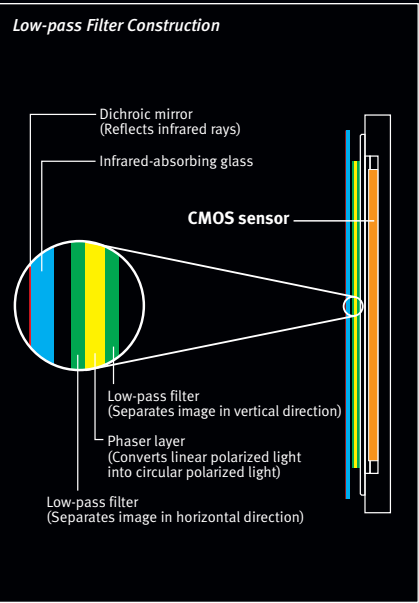
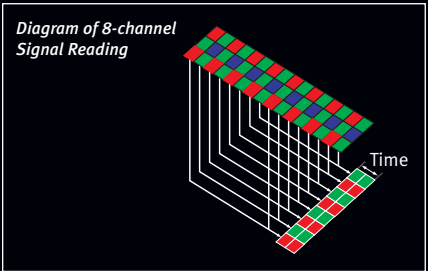
*CIPA standard output sensitivity. Recommended exposure index.

Pixels Size and ISO Speed

Camera	Pixel Size (µm)	ISO Speed
EOS-1Ds Mark III	6.4 x 6.4	100-1600, L(50), H(3200)
EOS-1D Mark III	7.2 x 7.2	100-3200, L(50), H(6400)
EOS-1D Mark II n	8.2 x 8.2	100-1600, L(50), H(3200)
EOS-1Ds Mark II	7.2 x 7.2	100-1600, L(50), H(3200)

Low Noise, High Speed

To achieve even less noise, the EOS-1Ds Mark III and EOS-1D Mark III have a feed-through output amp that attains both high speed and low noise. Low noise is also achieved with an



improved manufacturing process, an optimized pixel amp and an optimized reading circuit.

The EOS-1Ds Mark III and EOS-1D Mark III employ a single-line, 8-channel reading. With a faster output amp and optimized read circuit, a continuous shooting speed of approximately 5 fps/10 fps is attained.

To minimize the higher power consumption required by the faster signal reading, the output amp's power consumption has been reduced. Also during long exposures, power to the output amp is turned off and the standard current driving the circuit is also cut off to save power. In addition, during shooting with Live View Function, the power distribution for the signal-reading operation is optimized for more pinpoint power-saving control.

For the Self Cleaning Sensor Unit, the infrared-absorption glass is separate from the three-layer, optical crystal plate. This makes the dust-shaking plate lighter, saving power and making it easier to control.

The infrared filter has a hybrid construction; it has an infrared-absorption glass with multiple coatings to reflect infrared and ultraviolet rays. It effectively reduces red fringing and color casts caused by reflections of the sensor surface. A sophisticated low-pass filter is also utilized, behind the IR-cut filter, to minimize color artifacts such as moiré.

Performance: Dazzling Speed, Superb Precision

Dual "DIGIC III" Image Processors

DIGIC, a high-performance imaging engine, has been a major feature of Canon digital cameras because of its very fine image detail, natural color reproduction and high-speed signal processing. DIGIC III retains its basic concept and improves upon it with higher performance and faster speed. To cope with the voluminous signal processing required by the EOS-1D Mark III's 10.1 megapixels and top continuous shooting speed of 10 fps, two DIGIC III imaging engines are incorporated for parallel signal processing. The CMOS sensor reads out to the Dual "DIGIC III" Image Processors simultaneously in eight channels. For the EOS-1Ds Mark III's 21.1 megapixels, Dual "DIGIC III" works for ultra-fine detail, natural color reproduction, and high-speed image processing.

The extra power of Dual "DIGIC III" Image Processors has also allowed analog-to-digital conversion to improve from 12 to 14 bits per channel, meaning that tonal gradation for RAW images is divided into 16,384 separate levels per channel rather than 4,096. When saved as a 16-bit TIFF image, the image retains the full range of tones obtained with 14 bits. Also, JPEG images, at 8 bits per color, are generated from the 14-bit data.

Blazingly Fast Shooting Speed and Outstanding Burst Rate

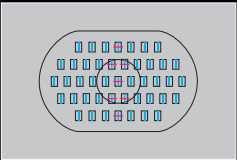
At a blazing 10 fps, the 10.1-megapixel Canon EOS-1D Mark III provides not only incredible speed when you need it, but also has an amazing burst rate of 110 JPEG/30 RAW continuous frames. The EOS-1Ds Mark III provides a continuous shooting speed of 5 fps at its full 21.1-megapixel resolution. It can also capture up to 56 consecutive full-resolution JPEG images or up to 12 RAW images in a single continuous burst. A shutter assembly, an autofocus system and Dual "DIGIC III" Image Processors contribute to the landmark speed of the EOS-1Ds Mark III and EOS-1D Mark III.



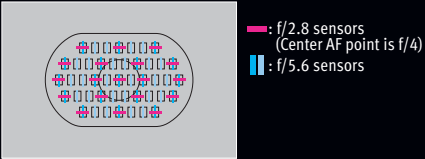
High-precision AF System

The autofocus system of the EOS-1Ds Mark III and EOS-1D Mark III represent a complete reconsideration of professional autofocus. In addition to a sensor chip, sophisticated manufacturing technologies have made it possible to reconfigure the concave submirror and the very clever secondary image formation lens. The result is greater sensitivity, easier and more logical navigation, higher precision and significantly better real-world performance.

In the previous 45-point AF system used by such cameras as the EOS-1v, EOS-1D, EOS-1Ds, EOS-1D Mark II, EOS-1Ds Mark II and EOS-1D Mark II N, there were seven cross-type, high-precision sensors grouped around the center of the frame. Any of the 45 points could be selected by navigating around the frame. This was the configuration of the previous 45-point AF array:



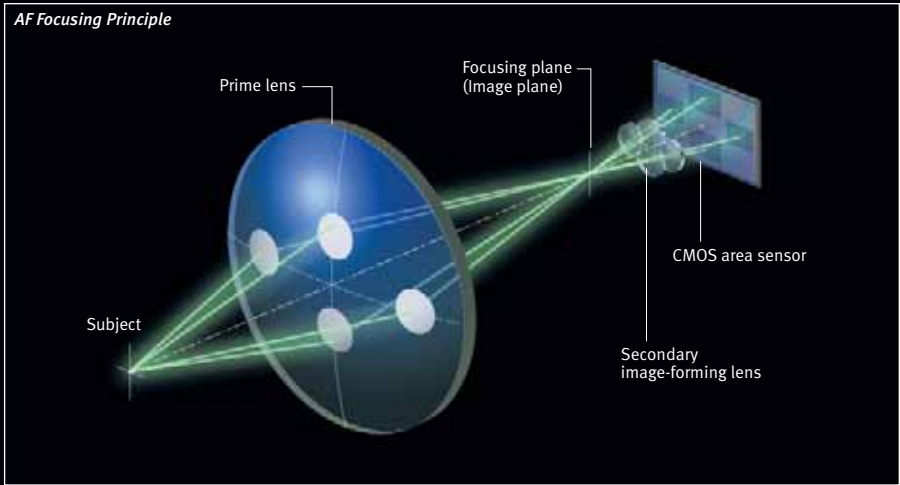
Here is the new AF point layout:



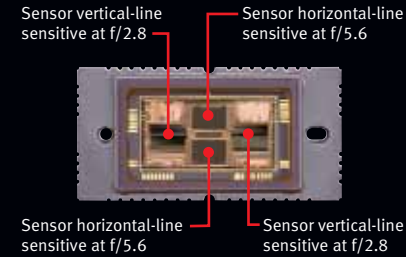
Note that the 19 high-precision, cross-type points are no longer clustered solely in the center of the frame. The 26 additional assist AF points are horizontal-line sensitive at f/5.6, are not user selectable, but can be added to a manually-chosen point to expand its size, and are also used in Automatic AF point selection mode.

Speed and Predictive-AF Performance

The EOS-1Ds Mark III and EOS-1D Mark III feature higher precision AF with the 19 user-selectable, high-precision cross-type AF points and improved low light AF performance. Also, to attain AI Servo AF with the EOS-1D Mark III for 10 fps, the focus computing is faster and an AF adjustment option function is provided. The AF sensor, AF computation method, and



AF-related electronic circuitry have been designed for the EOS-1Ds Mark III and EOS-1D Mark III. This robust AF system provides even greater consistency in high-speed sequences when tracking moving subjects. Even at its top speed of 10 fps, the EOS-1D Mark III is less likely than before to have the occasional soft frame in an AI Servo AF sequence.



Separate CPU for AF

One important difference between the EOS-1D series and other EOS series bodies is that a totally separate CPU is used strictly for AF processing. (In other EOS bodies, one main processor handles primary camera tasks as well as AF processing.) To attain 10 fps with AI Servo AF (EOS-1D Mark II), the AF CPU and camera CPU are separate, dedicated processors.

The 19 cross-type AF points take advantage of the following technologies:

- With finer processing steps, the peripheral circuit could be made smaller and the f/2.8 AF sensor area could be expanded.

- The secondary image-forming lens (see diagram) is molded glass. By incorporating a aspherical surface on the lens, the focusing area of the f/2.8 light flux could be expanded.

Each of the 19 cross-type AF points uses a high-precision horizontal component, with about 3x the focusing precision of the vertical component. The benefit is that AF accuracy at the sensor is enhanced when the photographer needs it most—shooting with fast lenses, at wide apertures.

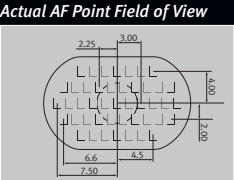
This means that on the actual AF sensor, the horizontal line pairs are significantly farther apart—and thus require a lens with a maximum aperture of f/2.8 or faster in order to operate. At the center AF point, the high-precision horizontal line sensor works with lenses f/4 or faster. In other words, with fast lenses, two benefits are realized: added precision, and simultaneous vertical and horizontal coverage—ideal for focusing on subjects with fine detail. When lenses with slower maximum apertures are used, only the vertical AF line sensor is active at each AF point.

Improvements to the EOS-1Ds Mark III and EOS-1D Mark III's AF sensor give even greater light-gathering efficiency (for both the horizontal and vertical line sensors), and greater low light AF sensitivity. In addition, the camera's ability to latch onto subjects with little detail is improved.

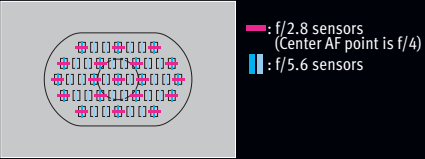
Lenses (or lens + extender combinations) with maximum apertures as slow as f/5.6 can

be used with AF at all focusing points. At the center AF point only, the camera can focus with a lens + extender with a maximum effective aperture as slow as f/8 (using the vertical line sensor only).

The remaining 26 AF points are “assist points.” Each has a single-line vertical sensor, and these points will focus with lenses having maximum apertures f/5.6 or faster.



AF Sensor Configuration



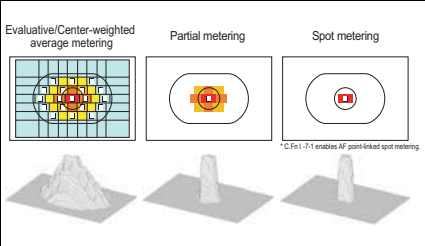
With the EOS-1Ds Mark III and EOS-1D Mark III, the size of a user-selected AF point can be expanded (via Custom Function III-8) regardless of whether the camera is in One-Shot AF mode or AI Servo AF mode. As noted previously, the assist AF points are also used when the camera picks the AF point(s) in Automatic AF point selection mode.

For low-light focusing, both cameras are much more sensitive than previous models. The CMOS AF sensor's pixel sensitivity has been improved, thanks to pixel characteristics, a pixel fill factor due to fine semiconductor manufacturing processes, and optimized pixel size. As a result, the EOS-1Ds Mark III and EOS-1D Mark III's AF sensitivity have been improved to EV -1 through EV 18 (at 73°F/23°C, ISO 100).

63-zone Metering System

The EOS-1Ds Mark III and EOS-1D Mark III incorporate a 63-zone metering sensor linked to the 19 AF points. The metering sensor is located at the rear of the pentaprism. The 19

AF points in the Area AF are a highly favorable match for the metering sensor's zones. The metering range is EV 0 to EV 20 (at 73°F/23°C, 50mm f/1.4 lens, ISO 100). The following metering modes are provided: evaluative, partial, spot, and center-weighted average. Also, AF point-linked spot metering is possible with C.Fn I -7-1. Partial metering reads approximately 8.5% (EOS-1Ds Mark III)/13.5% (EOS-1D Mark III) of the viewfinder and spot metering reads approximately 2.4% (EOS-1Ds Mark III)/3.8% (EOS-1D Mark III).



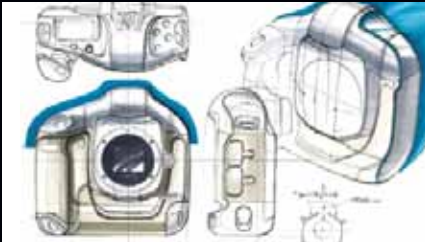
This Evaluative metering system is based on the concept for the previous 21-zone and 35-zone metering systems. With the optimized 63-zone metering sensor and improved calculations and processing, more consistent and correct ambient and flash exposures are obtained with less influence from the subject. The basic concepts for the 63-zone evaluative metering are:

- Metering is weighted on the linked AF point.
- If there is a very bright object in the picture, the exposure will be increased.
- In backlit scenes, the exposure will be increased. With dark backgrounds, the exposure will be reduced.

The E-TTL II autoflash algorithm uses the same 63-zone metering sensor. While based on the previous system which weighted the metering based on the preflash reading, the EOS-1Ds Mark III and EOS-1D Mark III have been improved to obtain consistent flash exposures. The major improvements are:

- Correct flash exposures are obtained even with off-center subjects.
- The incorporation of lens distance information has been optimized to obtain accurate flash exposures even with highly reflective backgrounds.

Built to Perform: Durable, Rugged, Precise



Design Sketches for the EOS-1D Mark III.

1-Series Body

Both EOS-1Ds Mark III and EOS-1D Mark III retain and refine the beautiful curved surfaces and superb basic layout of the EOS-1 series. Ease of operation and holding comfort have been improved appreciably, as have ease of operation with accessories. The cameras are designed to be easier to understand and more reassuring. The massive strength of its magnesium alloy body and chassis, combined with complete environmental sealing, means that the cameras stand with its forebears as an instrument worthy of the photographers who risk their lives daily to take pictures.

All Magnesium-alloy, Including Mirror Box and Chassis



EOS-1D Mark III Magnesium-alloy Body

Because of its lightweight and strength, magnesium alloy is used for the top, front, and rear covers as well as for the memory card slot covers. The chassis and mirror box are also made of magnesium alloy to make the body very strong, rigid, and light. The magnesium alloy also works as an electromagnetic shield. It is highly durable, allowing minimal wear even under harsh conditions.



Shutter Unit

Item	Specification
1. Type	Vertical travel, focal-plane shutter
2. Shutter curtain type	Parallelogram link type
3. Shutter curtain blades	1st curtain: 4 blades, 2nd curtain: 4 blades, total 8
4. Shutter curtain materials	1st curtain: Two carbon blades, two duralumin blades 2nd curtain: Two carbon blades, two duralumin blades
5. Drive system	1st curtain: Dedicated torsion spring 2nd curtain: Dedicated torsion spring
6. Speed control method	Mechanical shutter with tension released by a rotary magnet, all shutter speeds electronically-controlled
7. Curtain speed	Approx. 2.3ms/21.0mm
8. Shutter speed range	1/8000 sec. – 30 sec. bulb
9. Max. flash sync.	1/300 sec.
10. Signals	1. X-sync, 2. 2nd curtain travel-completed signal

Electronic X-sync Contact Diagram

The diagram illustrates the electronic X-sync contact setup. It shows two semiconductor switches, each labeled "Semiconductor switch (Electronic X-sync contact)". The top switch is connected to "Sync contacts" (represented by a symbol with a circle and two vertical bars) and an "External Speedlite". The bottom switch is connected to a "Non-Canon flash" (represented by a circle with a dot) and a "PC terminal". Both semiconductor switches are connected to a common line that leads to an "MPU" (Microprocessor Unit), which is then connected to a "Shutter PR" (Shutter Release).

[illegible]

• Metering Mode
 • ISO
 • JPEG/Raw Recording
 • Battery Charge Level

Item	EOS-1Ds Mark III	EOS-1D Mark III
Coverage [Approx.]	100%	
Magnification	0.75x	0.76x
Viewing Angle	35°	30°
Eye point [Approx.]	20mm	
Dioptric adjustment	-3 to +1 dpt	

Viewfinder Optics

SI lens 1
 SI mirror
 SI lens 2
 Metering sensor
 V-LCD prism
 V-LCD
 Eye-piece lens
 SI-LCD
 Pentaprism
 Backlight lens
 SI-LED
 Metering lens
 Condenser lens
 Focusing screen
 SI prism 1
 SI prism 2
 H-LED
 H-LCD prism

Magnified Screen

Ec-C IV Ec-C III Fresnel lens area

Cross section of fresnel lens



Eyecup E9

LCD Viewing Angle

Vertical Viewing Angle: 70°

Horizontal Viewing Angle: 70°



The LCD brightness adjustment screen shows a landscape image of a green field and a blue sky. Below the image is a horizontal slider with a scale from 1 to 7. The slider is currently set to 4. To the right of the slider is a 'SET OK' button.

Camera Control Modifications

Diagram illustrating the camera control modifications for the Nikon D7000. The diagram shows the top and front views of the camera body with various buttons and controls labeled.

Top View Labels:

- AF/Drive mode selection button
- ISO speed button

Front View Labels:

- Info button
- AF start button
- Multi-controller
- Setting button
- AF start button
- Quick Control Dial switch
- Picture Style selection button
- Function button (WB/Recording media/Image size selection button)

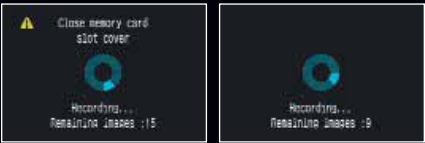
SDHC (SD High-Capacity) is a memory card standard (SDA Ver.2.00) to handle high-capacity data from 2GB to 32GB. Because it is compatible with SDHC, the camera can be used with SD cards having a capacity up to 32GB.

Image Size	Pixels [Approx. MB]	File Size [Approx. MB]	Possible Shots [Approx.]	Maximum Burst [Approx.]		Printing Size
				Hi-Speed	Low-Speed	
L (Large)	10.1 (3,888x2,592)	3.5	260	110	260	11 x 14 or Larger
M1 (Medium1)	8.0 (3,456x2,304)	2.8	320	130	320	up to 5 x 14
M2 (Medium2)	5.3 (2,816x1,880)	2.1	420	140	420	Letter- size
S (Small)	2.5 (1,936x1,288)	1.2	710	160	710	Approx. 5 x 7
RAW	10.1 (3,888x2,592)	13.0	66	30	35	11 x 14 or Larger
RAW+	L (Large)	13.0±3.5	52	22	27	—
	M1 (Medium1)	13.0±2.8	56	22	27	
	M2 (Medium2)	13.0±2.1	56	22	27	
	S (Small)	13.0±1.2	60	22	27	
sRAW	2.5 (1,936x1,288)	7.6	110	46	70	Approx. 5 x 7
RAW+	L (Large)	7.6±3.5	76	28	35	—
	M1 (Medium1)	7.6±2.8	81	28	35	
	M2 (Medium2)	7.6±2.1	87	28	35	
	S (Small)	7.6±1.2	95	28	35	

47

Security

With both cameras, if the slot cover is opened during the writing operation, an alarm sounds and a warning message appears on the screen to indicate that writing is in progress. The card



On-screen message
if the slot cover is opened

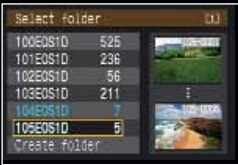
On-screen message
if the power switch is set to <OFF>

writing continues even if the slot cover is opened. Also, if you set the power switch to <OFF> during the card writing, a message appears on the screen to indicate that writing is in progress. After the writing is completed, the power turns off.

You can protect individual images, all images in a folder, or all images on the card. Alternately, you can cancel image protection. You can erase individual images, all images in a folder, all images in the card, or just check-marked images (a new feature). Unprotected images will be erased.

Copying Image Files

Selected images, a folder of images, or the entire contents of any memory card can be copied by the photographer onto another memory card—or attached USB hard drive—at any time. This gives the ability to make back-up copies of important images, whenever it's appropriate. If the Canon Wireless File Transmitter WFT-E2A is used, a compatible USB-enabled hard drive can be attached directly to the transmitter's USB port. Instead of having to bring a laptop computer on location, a photographer can quickly copy their files to a high-capacity hard drive during a break in shooting. It's an ideal option to provide security and peace of mind to the working professional.



Creating and Selecting a Folder

File Naming Options

Each EOS-1Ds Mark III or EOS-1D Mark III body comes with a unique 4-character prefix for its

file numbers. It also offers two user-defined options to tailor file naming to the shooter's needs: the user can set their own first four characters for file names (ABCD1234.jpg) or set the first three characters, and have the camera add the 4th to indicate size of the file (L for full-resolution, M for M1, N for M2, or S for Small JPEG/Small RAW—ABCL1234.CR2).

Highlight Tone Priority

This feature extends the dynamic range of highlights by about one stop and improves gradation within highlight areas. By expanding



Highlight Tone Priority: ON



Highlight Tone Priority: OFF

the range from the correct exposure level (18% gray) to the maximum allowable highlight level, the gradation from the grays to the highlights becomes smoother and loss in highlight detail is minimized. If [C.Fn II-3; 1: Enable] is set, the ISO range is ISO 200-3200 (EOS-1Ds Mark III: 20–1600).* When active, zeros in the ISO display are lower case (200, 400, etc). Depending on shooting conditions, noise in the shadow areas may increase slightly.

**Standard output sensitivity. Recommended exposure index.*

Integrated Cleaning System

Both the EOS-1Ds Mark III and EOS-1D Mark III incorporate the EOS Integrated Cleaning

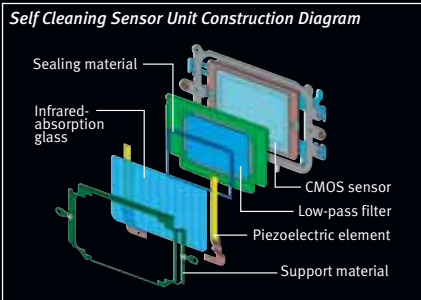


Self Cleaning Sensor Unit

System, which is a complete anti-dust system. It suppresses dust generation and dust adhering to the sensor, removes dust and makes any remaining dust less noticeable.

- The shutter has been improved to generate less dust.
- The IR-cut filter's anti-static charge surface prevents attracting dust due to static charge.
- The sensor unit is self-cleaning.
- Dust Delete Data can be obtained and appended to images.
- Manual cleaning of the imaging sensor using air is still an option.

The compact Self Cleaning Sensor Unit is optimized for the large imaging sensors on the EOS-1D Mark III and full-frame EOS-1Ds Mark III. On the front infrared-absorption glass, two



thin, single-layer piezo-electric elements are attached. By applying ultrasonic vibration to the infrared absorption glass, the adhering dust is shaken off. The removed dust particles stick onto adhesive material around the infrared absorption glass. Also, to prevent dust from entering the sensor unit, the assembly is secured with sealing material around the perimeter. Unlike some competitors who vibrate an extra glass plate, the EOS-1Ds Mark III and EOS-1D Mark III vibrate the infrared absorption glass directly, so the optical performance is not degraded by an extra layer of glass and the unit can be kept compact. The Self Cleaning Sensor Unit can therefore be incorporated in a conventional size body.

Operation timing is either auto or manual. The default setting has the unit operating for about 3.5 seconds whenever you turn the power switch ON or OFF. While the unit is operating, the LCD monitor displays a logo indicating that sensor cleaning is being executed. If the menu is set to [Auto cleaning:



Dust in the image is deleted by Digital Photo Professional software using "Dust Delete Data."

Disable], the auto cleaning is not executed.

When the menu is set to [Clean now], you can clean the sensor whenever you wish. It takes about 4 seconds. During the cleaning, ultrasonic vibration is applied to the infrared-absorption glass and the shutter is cocked three times so that the dust falls off the infrared-absorption glass and any dust resettling on the shutter curtains is also shaken off. During sensor cleaning, whether started automatically or manually, pressing the shutter button halfway or pressing the Menu button will immediately terminate the cleaning and the camera will be ready to shoot. Because the unit has very low power consumption, cleanings do not significantly affect the number of possible shots, even if the default Auto setting is selected.

To prevent the piezo-electric elements from over-heating and to ensure proper cleaning, the unit cannot operate again within 3 seconds of finishing operation. Also, if the unit operates five times successively at intervals shorter than 10 seconds, it will not operate again for 10 seconds. During the stoppage, the [Clean now] menu option can not be selected.

The position and size of any remaining dust particles can be mapped onto each image, and the dust "cloned-out" with Canon's supplied Digital Photo Professional software. This removal of dust takes place with a simple mouse click, and can be automatically performed on one or hundreds of images at a time.

A "Dust Delete Data" test image needs to be taken to enable this, and after it's taken, the location of any remaining dust is added to each subsequent image. Activated via a Menu

setting, the user simply sets their camera lens to infinity, and fills the frame with a plain white subject located about 1 or 2 feet away. A test shot is taken, with the camera switching momentarily to Av mode at f/22. The LCD monitor confirms whether Dust Delete Data was successfully acquired. Dust Delete Data can be updated whenever the photographer feels it's necessary.

Live View Function

Live View Function is a significant addition to the professional DSLR shooter's arsenal. It is a terrific problem-solver for all those situations in which it would be awkward, difficult or impossible to look through the viewfinder to compose, meter and shoot. In response to the particular requests of studio and remote sports photographers, EVF (Electronic ViewFinder) shooting with a computer, wired or wireless, is possible with both the EOS-1Ds Mark III and EOS-1D Mark III. By connecting the camera via USB to a computer with the EOS Utility 2.0 software provided, the computer will display in real time the image output by the camera's imaging sensor. You can then check and adjust the focus, subject framing and so forth in real time and shoot remotely. With the optional Wireless File Transmitter WFT-E2A attached, you can use a wireless LAN and see the Remote Live View Function on a computer without using a cable. Key features of Live View Function include a 100% field of view, precise manual focusing with 5x and 10x magnification, the ability to pre-visualize exposure, framing and focusing on a computer monitor, easy checking for moiré and false color, displaying film-related aspect ratios, and having a video-out terminal for TV display.

Camera Live View Function

Instead of looking through the viewfinder, you can shoot while viewing the scene on the camera's LCD monitor. Compared to looking through the viewfinder, it provides the following advantages:

1. The real-time picture can be magnified by 5x or 10x to help make focusing more precise.
2. Shoot while checking the composition on the LCD monitor.

3. You can view a live histogram before the shot is taken (C.Fn IV-16-1, then press the INFO button to apply histogram).

Live View Function is extremely effective in a variety of conditions. It's applied by first enabling it with a menu setting, and then pressing the SET button. The reflex mirror will then lock up, the shutter will open, and the image output from the CMOS sensor will be displayed in real time and 100% image coverage on the camera's LCD monitor. Press the SET button again and the reflex mirror will go back down and the shooting with Live View Function will end.

Focusing

Focusing is manual-only with Live View Function. Use the multi-controller to move the AF point aimed over the area on which you want to focus, then press the Magnify button to enlarge the image by 5x or 10x at the AF point's position. Press the button again to return to normal view. At 5x or 10x magnification, you can focus manually while looking at the LCD monitor. To make it easier to focus during the magnified view, image sharpness is applied at a higher setting on the LCD monitor than it really is. Pressing the depth-of-field



Live View Function Enabled



with 10x Magnification

preview button, stops down to the aperture which will be used to take the picture. It will simulate the shooting exposure and you can check both the exposure level and depth of field. If you use depth-of-field preview during regular viewfinder shooting, the viewfinder will look dark and it may be difficult to see the depth of field. However, with Live View Function shooting, a clever simulation is displayed so checking the depth of field is easier as long as the exposure setting is near the metering's correct exposure.

Remote Live View Function

Remote Live View Function is controlled through the EOS Utility software included on the EOS Digital Solution Disk, Ver.14 or higher. The camera can be connected, either wired with the provided USB 2.0 Hi-Speed cable, or wirelessly with the Wireless File Transmitter WFT-E2A. To get started, the camera must be set to enable Live View Function. Then, click the [Starting Live View Function] selection on the Remote Live View Function screen.



Function Settings

The metering mode is set to AF point-linked evaluative metering. Other shooting settings (shooting mode, drive mode, image size, ISO speed, exposure compensation, etc.) can be set in the same way as during viewfinder shooting. The metering timer is 16 seconds (including AE lock). Focus presets with super telephoto lenses cannot be used. Even during shooting with Live View Function, the power will turn off after the [Auto power off] time elapses. During Live View Function, pressing the MENU or playback button will terminate the Live View Function shooting and the menu screen or image playback will appear.



Live View Function Settings

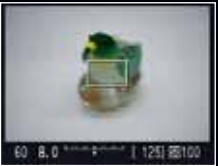
Metering and Exposure with Live View Function

Evaluative metering directly off the imaging sensor is used. The metering mode cannot be changed. The metering range is EV 0 to EV 20 (at 73°F/23°C, with EF 50mm f/1.4 lens). Any shooting mode and drive mode can be used. Also, AE lock, exposure compensation, AEB, and depth-of-field preview are possible. During magnified view, AE lock is automatically applied to the meter reading for the entire image. If C.Fn IV-16 [Live View exposure simulation] is set to [1: Enable (simulates exposure)] and the shooting mode is P, Tv, Av, or M, then the LCD monitor's brightness will change in response to the exposure setting so you can

see how the exposure will look before you take the picture. When you press the shutter button completely, the opened shutter will close; the shutter will be cocked and released, and the picture will be taken.

If flash is used, the mirror must come down briefly. Pressing the shutter button completely will cancel the mirror lockup and the metering sensor will execute E-TTL II flash metering control (preflash fired and the correct flash output is retained). Then the reflex mirror is locked up again and the picture is taken. For continuous shooting, the maximum shooting speed as with normal shooting can be achieved. During continuous shooting, the LCD monitor is off. After the shooting ends, the captured image is displayed on the LCD monitor. When the user is ready to shoot again, the camera returns to the Live View Function display automatically. As with viewfinder shooting, pressing the AE lock button during shooting with Live View Function will lock the current exposure and an asterisk will appear on the LCD monitor. During magnified view, AE lock will be applied automatically to the exposure level of the full view display. The Tv and Av settings will be displayed in orange. During the magnified view, the AE lock button will not work. With C.Fn IV-16-1, the picture brightness is also locked.

Normally, the image with Live View Function displayed by the LCD monitor is always displayed at the correct brightness, regardless of the exposure setting, for easy viewing similar to compact digital cameras. However, if C.Fn IV-16 [Live View Function exposure simulation] is set to 1, the picture will be displayed on the LCD monitor at virtually the same brightness as the final exposure will be – based on the current aperture, shutter speed, ISO, and exposure compensation settings. This enables you to see the exposure condition before taking the picture. Exposure simulation will not work with



No Compensation



1 1/3 stop Compensation

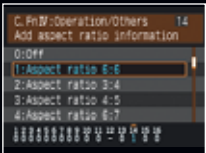
flash or long time exposures in Bulb mode. If you press the depth-of-field preview button, exposure simulation will be active at all times regardless of the C.Fn IV-16 setting.

Info Display During Live View Function

Below the image, the shutter speed, aperture, exposure level (exposure compensation amount, AEB level), flash exposure level, shots remaining, and ISO speed are displayed. In the magnified view, the magnified location, magnification, and AE lock status are displayed on the right of the image. In addition, when you press the INFO button, the Picture Style, battery check, AE lock status, and flash-



Grid Display



C.Fn IV-14-1 (Aspect Ratio 6:6)



Aspect Ratio Display (6:6)



Information Display 4

ready are also displayed on the lower left of the image. If C.Fn IV-16-1 is set and you press the INFO button again, a brightness or RGB histogram appears on the right of the image. (For flash shots and bulb, the histogram display will be grayed out.)

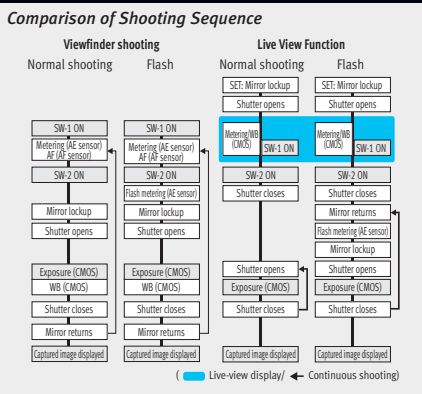
Press the INFO button and only the image seen with Live View Function (without information) will be displayed. If [Grid display: On] has been set, a four-line grid will be displayed on the image. This can be used to check the vertical or horizontal orientation of the image. The grid appears only in the full view mode (not in the magnified view). Also, with C.Fn IV-14 [Add aspect ratio information] set anywhere from 1 to 6, you can shoot in the same aspect ratio as 6 x 4.5, 6 x 6, 6 x 7, and 4 x 5, corresponding to medium- and large-format film sizes.

When this feature is set, vertical lines matching the respective aspect ratio will appear on the screen. You can then compose

the subject within this frame. Since the aspect ratio information will be appended to the image, when you open the image with Digital Photo Professional 3.0 or higher, the image will be displayed in the aspect ratio that was set. Note that the image areas outside the vertical lines are not actually deleted and that when the image is played back with the camera, the vertical lines matching the aspect ratio will also appear.

Shooting Sequence

During shooting with Live View Function, the picture is displayed and then the reflex mirror locks up automatically to maintain display with Live View Function (and returns later).



The Live View Function display's frame rate is approx. 30 fps. The picture remains smooth even if you change the camera's direction or if the subject moves. If the camera direction is changed to a scene with a very different light level, the picture brightness seen with Live View Function will be thrown off for a moment. If this happens, wait until the picture brightness stabilizes again before shooting.

If the light source changes, the image seen with Live View Function may flicker. If this happens, stop shooting with the Live View Function and press the SET button to start shooting with the Live View Function again. During continuous shooting, the exposure for the first shot will also be applied to subsequent shots. If the sun or other bright light source enters the picture, the bright area might look dark. However, it will be correctly recorded as a bright area. Note that FE lock and modeling flash cannot be used.

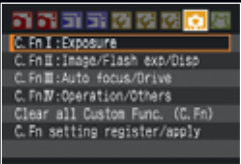
Thermal Issues

Live View Function can normally be used without a practical time limit, allowing photographers to shoot extensively without interruption. However, if Live View Function is used and the camera is in a hot area (such as in direct sunlight), it's possible for image quality to degrade slightly. Another factor that can increase camera temperature during Live View is use of a MicroDrive-type memory card.

To avoid this, an internal temperature sensor in the EOS-1Ds Mark III and EOS-1D Mark III will alert the photographer by displaying an icon on the LCD monitor shaped like a thermometer. In extreme conditions, Live View Function will terminate automatically. It's possible to return to Live View Function after the camera's internal temperature drops to a normal level.

Custom Functions

The old Personal Functions of the previous EOS-1D series have been consolidated with Custom Functions (C.Fn), 57 in all, with a new numbering system. They are organized in groups I to IV.

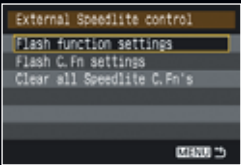


Custom Functions

Custom Functions

are now pleasantly faster to select and set.

With the Speedlite 580EX II attached, you can set or cancel the Speedlite's Custom Functions (C.Fn-0 to C.Fn-13) with the EOS-1Ds Mark III and EOS-1D Mark III. You can also use the camera to set the 580EX II's flash mode, flash exposure compensation amount, FEB, flash sync, and other Speedlite functions. The EOS-1Ds Mark III also allows Wireless E-TTL settings to be made on the camera's menu.



External Speedlite Control

Lightweight “Smart” Battery Pack and Charger

The powerful LP-E4 rechargeable battery pack—a 2300 mAh, Lithium-Ion battery is small and lightweight. It can display the following on the camera's LCD menu: Power source type, remaining capacity 6-level icon, display in 1% increments, shots taken since battery charged, whether battery calibration is needed, and even when the battery has reached the end of its useful life.

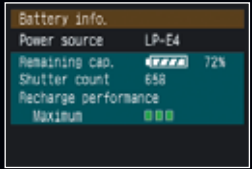


Battery Pack LP-E4

Speedlite 580EX II Flash C.Fn Settings

No	Item	No	Description	No	Item	No	Description
0	Distance indicator display	0	Meters (m)	6	Quickflash w/continuous shot	0	Disabled
		1	Feet (ft)			1	Enabled
1	Auto power off	0	Enabled	7	Test firing with autoflash	0	1/32
		1	Disabled			1	Full output
2	Modeling flash	0	Enabled (DOF preview butt.)	8	AF-assist beam firing	0	Enabled
		1	Enabled (Test firing butt.)			1	Disabled
		2	Enabled (with both buttons)	9	Auto zoom for sensor size	0	Enabled
		3	Disabled			1	Disabled
3	FEB auto cancel	0	Enabled	10	Slave auto power off timer	0	60 minutes
		1	Disabled			1	10 minutes
4	FEB sequence	0	0 → → +	11	Slave auto power off cancel	0	Within 8 hours
		1	→ → 0 → +			1	Within 1 hour
5	Flash metering mode	0	E-TTL II / E-TTL	12	Flash recycle w/ exter. power	0	Flash and external power
		1	TTL			1	External power source
		2	External metering: Auto	13	Flash exposure metering set.	0	Speedlite button and dial
		3	External metering: Manual			1	Speedlite dial only

This information can be viewed with the [Battery info.] menu. The system also consists of Battery Charger LC-E4 and AC Adapter Kit ACK-E4.



Battery Info.

An IC chip in the battery tracks battery information. Battery level is displayed upon communication with the chip. The remaining battery level is indicated by a battery icon indicating one of six levels on the top LCD

Icon	Level (%)
	100 - 70
	69 - 50
	49 - 20
	19 - 10
	9 - 1
	0

panel, in the viewfinder (during metering), and on the menu screen [Battery info.]. If communication with the battery chip fails, a communication error message will appear. By selecting [OK], you can continue shooting. (The battery icon will be displayed as empty.)

After the battery undergoes 20 discharging and charging cycles, a message recommending battery calibration will appear on the bottom of the screen the next time the battery is installed. Calibration is performed with Battery Charger LC-E4 to find out the battery's capacity so that the remaining battery level can be indicated accurately. Each time the battery is recharged and used or discharged naturally, a slight discrepancy between the battery's remaining capacity information and the actual remaining capacity develops. With repeated recharge/discharge cycles, this discrepancy can become a large one. By performing calibration to discharge the entire battery and by then recharging the battery fully, accurate battery capacity information can be obtained. Two battery packs can be attached to the LC-E4 charger. It takes



Battery Charger LC-E4
(Only for Battery Pack LP-E4)

about 120 minutes to recharge one battery pack. The charger is compatible with the optional DC power adapters (12V/24V) so you can connect it to a car battery with the optional Car Battery Cable CB-570 to recharge the battery pack.

A Complete System, Constantly Improving

Wireless File Transmitter WFT-E2A

The WFT-E2A is a weather-resistant wireless file transmitter dedicated to the EOS-1Ds Mark III and EOS-1D Mark III. Its magnesium-alloy body is small and lightweight, and draws power from the camera, so there's no extra battery to worry about. It transmits either wirelessly via 802.11b/g, or by wire directly to computers up to 1,000 feet away via standard Ethernet cables (100BASE-TX). For wireless transmission, the antenna is embedded within the WFT-E2A, and has a maximum working range of nearly 492 feet/ 150m,* depending on environmental conditions and computer set-up.

Wireless transmission is up to 1.5x faster than the previous one, due to faster in-camera operations, and Ethernet communication is up to 3x faster (again, depending upon conditions and computer in use).

A key improvement is set-up, which is guided with a wizard-type interface and is far simpler with Mac OS X and Windows Vista, XP, and 2000 computers. Three different methods of communication are possible:

- FTP mode—computer acts as an FTP server; files are transferred to a folder on computer's hard drive.
- PTP mode—enables two-way communication between camera and computer, with wireless (or Ethernet) Live View Function on computer's screen, and remote control of camera is possible.
- HTTP mode—allows up to three separate computers to view camera's memory card using a standard web browser (Microsoft Internet Explorer™, Apple Safari™, etc.). Images can be selected from browser window and dragged onto computer's desktop or to a folder, which copies full file to computer.Remote firing of the camera is also possible.

With its USB host capability, users can plug compatible GPS devices directly into an attached WFT-E2A, and have GPS coordinates,



EOS-1D Mark III with Wireless Transmitter WFT-E2A

altitude, and UTC time code added to each image's shooting data with the EOS-1Ds Mark III and EOS-1D Mark III. Compatible GPS units include several in Garmin's GPSMAP series, and Magellan eXplorist series, using NMEA 0183 v.2.0.1 output data standard or "Garmin protocol".

A USB-enabled portable hard drive can also be attached to the transmitter's USB port, and the photographer can either shoot directly to the hard drive (alone, or in addition to in-camera memory cards), or copy files to the hard drive with a menu command. (Many 1.8-inch and 2.5-inch USB-enabled portable hard drives are compatible; 2.5-inch drives cannot be USB-bus powered.)

* With no obstructions between the transmitting and receiving antennas, and no radio interference. With a large, high-performance antenna attached to the wireless LAN access point.

Speedlite 580EX II

The Canon Speedlite 580EX II retains many features from the Speedlite 580EX (Max. GN 190, feet) while offering several major improvements. A shoe assembly and added seals bring the flash up to the dust- and water-resistance standards of the EOS-1D series.

The use of a metal foot, replacing engineering plastic, provides an improved contact structure and reduces the



Speedlite 580EX II

likelihood of flash failure during rough handling. Also the quick-lock system replaces the screw-type fastener at the bottom of the flash.

The 580EX II can be controlled from the EOS-1Ds Mark III and EOS-1D Mark III's LCD monitor, enabling on-camera setting of flash functions and flash-related Custom Functions. The 580EX II has an external metering sensor that provides non-TTL autoflash possibilities. A PC terminal enables easier off-camera shooting, even with third-party remote trigger systems. The unit has a recycling time which is approximately 20% faster than that of the 580EX. The characteristic buzzing noise emitted by flash units during recycling has been silenced. The battery cover has been strengthened and a locking mechanism has been added.

Other accessories include the 2-foot long Off-Camera Shoe Cord OC-E3, and the Compact Battery Pack CP-E4—both weather-resistant as well.

Speedlite 430EX II

Bringing a new level of versatility and capability to flash photography, the Speedlite 430EX II is a high-performance flash unit sporting a compact, durable design. It combines powerful output (guide number of 141 ft./43m at ISO 100) with fast recycling time. A one-touch quick-lock mechanism makes it easy to attach or detach the 430EX II from the camera, and a metal foot has been added for strength and durability. The flash can now be fully controlled via menu selections on the LCD screens of compatible EOS Digital SLR cameras. Compared to its predecessor, (the 430EX), the Speedlite 430EX II is quieter and recycle time is 20% faster. Moreover, since it is compatible with Canon wireless E-TTL, it can be used as an affordable "slave" unit in multi-flash configurations.



Speedlite 430EX II

Original Data Security Kit

The Original Data Security Kit OSK-E3 is an optional accessory with the same original data verification features as the DVK-E2 plus new functions that expand its usefulness. With the EOS-1Ds Mark III and EOS-1D Mark III, shooting data (including any GPS data) can be verified as original and unaltered, as well as pixel data in the image itself.

Image data encryption/decryption (secured transmission) is also possible with the EOS-1Ds Mark III and EOS-1D Mark III. Designed for press applications, this feature will prevent the wrongful use of images intercepted at public events. With the OSK-E3, the images themselves are encrypted, not just the memory card. Encryption of images requires the use of a registered camera with the Original Data Security card installed. Decrypting image files and viewing or saving them requires a computer with OSK-E3 software and the card installed in the included card reader, and user authentication.

The kit consists of the Original Data Security card, the USB reader/writer, and the dedicated application programs (in the EOS Digital Solution Disk). The encryption feature can be used only with the EOS-1Ds Mark III and EOS-1D Mark III.

Remote Control Options

The EOS-1Ds Mark III and EOS-1D Mark III are the complete solution to professional remote control photography. It can be connected via a USB 2.0 Hi-Speed cable and operated directly from a personal computer. With the WFT-E2A, a remote trigger can be used to fire the camera. With the WFT-E2A and a laptop computer, a photographer can use the Live View Function to shoot in real time from truly amazing locations. Anything and everything is now possible.



Original Data Security Kit OSK-E3



Wireless File Transmitter WFT-E2A

EF 24mm f/1.4L II USM Lens

This superb new EF L-series lens features completely redesigned optics that further elevates performance in the 24mm class. Created in response to demand for superior optical characteristics—especially at the periphery—needed for use with ultra-high-resolution Canon full-frame DSLR cameras, this large-diameter f/1.4 design surpasses all previous models. Lens elements have a newly-designed anti-reflective SWC (Sub Wavelength Coating) that departs from conventional coatings by using an extremely fine structure that minimizes ghosting and flaring across the lens surface, regardless of the angle with which light enters or exits. It also features two UD lens elements to minimize chromatic aberrations, incorporates rear-focusing, ultrasonic, quiet and high-speed AF with full-time manual override. A circular aperture provides beautiful out-of-focus detail and offers legendary dust- and water-resistant L-series construction using only lead-free glass.



Direct Printing

As for the camera's operation with Canon printers, Canon has made four improvements to PictBridge: faster data transfer, printing layout, printing effects, and cable disconnection after data transfer completion. The EOS-1Ds Mark III and EOS-1D Mark III support all of the above as well as RAW and sRAW image printing via PictBridge (must be RAW files taken with either the EOS-1Ds Mark III or EOS-1D Mark III). Any Canon or third-party PictBridge printer can be used to print images. With RAW/sRAW + JPEG images, the JPEG image is printed.

The [Red-eye 1] printing effect has been added to: [Off], [On], [Vivid], [NR], [Vivid+NR], and [Face brightener]. When [Red-eye 1] is used for a flash shot containing red eye, the red eye can be corrected before printing.

Direct printing to Canon SELPHY Compact Photo printers is also possible, taking full advantage of the options provided by PictBridge. This is an excellent option for providing quick "proof" prints to clients or subjects when shooting on-location.

EOS 5D Mark II

The Featured Professionals

WEDDING



**Clay
Blackmore**

Explorer of Light

Stunning Stills and HD Video with One Camera

Clay Blackmore is a renowned innovator in the world of wedding photography and portraiture. Clay's style blends the beauty and timelessness of classical portraiture with the spontaneity and appeal of photojournalism. A celebrity and society favorite, his clients include entertainment, sports, and political luminaries. Clay's camera system of choice—Canon EOS, now with the added HD video capture capability—opens new doors of creativity and opportunity.

PHOTOJOURNALISM



**Richard Koci
Hernandez**

Tools for Multimedia Creativity

As a multimedia artist, Richard Koci Hernandez is extensively involved in both still photography and videography. The former deputy director of multimedia at the *San Jose Mercury News*, he tirelessly explores new avenues of photojournalism, seeking innovative approaches to storytelling. The extensive and growing capabilities of the EOS System—especially the ability to capture Full HD video with a DSLR—make Richard an enthusiastic Canon professional.

DOCUMENTARY



**Joachim
Ladefoged**

Images that Tell the Real Story

Joachim Ladefoged has worked in more than 50 countries, winning international recognition for covering war, conflict, and ordinary life around the world. The first Danish photographer to win a first place award at a *World Press Photo* competition, he is credited with being one of the driving forces behind the new wave of Danish photojournalism. Joachim's unique documentary style, evident in both his still and video work, is perfectly complemented by the EOS System.

Exceptional Performance, Phenomenal Image Quality

With its superb 21.1-megapixel full-frame CMOS sensor, next-generation DIGIC 4 Image Processor, high-performance AF sensor, high-resolution VGA 3.0-inch Clear View LCD monitor, and many additional advanced features, the EOS 5D Mark II sets new standards for image quality, responsiveness, shooting flexibility, and versatility in a DSLR ideal for professional and serious amateur photographers alike. New capabilities, such as Full HD video recording and expanded Live View Function, provide expanded applications beyond the traditional scope of DSLR cameras, creating new possibilities in professional use. Innovative image enhancement features further ensure the highest quality image capture.

NATURE



George Lepp

Explorer of Light | PrintMaster

A System with Real Flexibility and Power

A leader in the rapidly advancing field of digital imaging, George Lepp is best known as a celebrated outdoor and nature photographer, lecturer, and author. His passions for natural beauty, technical precision, cutting-edge technology, and environmental responsibility are revealed in his beautiful and compelling photographic images. In the EOS System, George has found unequalled flexibility and powerful detail capturing ability.

CELEBRITY



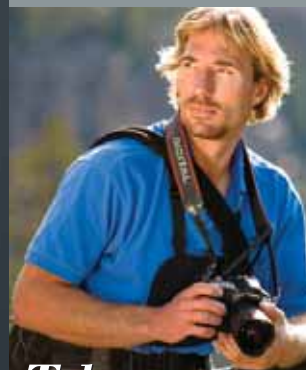
**Greg
Gorman**

Explorer of Light

Spectacular Images, Superb Camera Handling

From personality portraits and advertising campaigns to magazine layouts and fine art work, Greg Gorman has developed and showcased a discriminating and unique style in his profession. His photography is timeless, and his images paint pictures of human nature in its infinite range. With advanced capabilities, the EOS System provides Greg with a powerful, practical alternative to medium format cameras.

COMMERCIAL



**Tyler
Stableford**

Explorer of Light

Performance Under Pressure

Aspen photographer Tyler Stableford has earned a worldwide clientele for his commercial and editorial photography. In 2005 *Men's Journal* named him one of the "World's Greatest Adventure Photographers" for his work exploring Iceland's glacier caves. The rigors of outdoor commercial and action/adventure shooting demand a camera system that delivers faultless image quality with unequivocal ruggedness and durability—all reasons why Tyler shoots with the Canon EOS System.



Camera: EOS 5D Mark II
Lens: EF 16–35mm f/2.8L II USM
©2008 Clay Blackmore. All Rights Reserved



Camera: EOS 5D Mark II
Lens: EF 24mm f/1.4L II USM
©2008 Clay Blackmore. All Rights Reserved

Brilliant Stills, Spectacular Video



WEDDING

EOS 5D
Mark II



FULL FRAME
CMOS
EOS 5D Mark II
Full-frame
CMOS Sensor
(Actual Size)

An Extraordinary Still Camera

The EOS 5D Mark II features an advanced autofocus system that uses nine primary AF points with six supplemental assist points around the center point. It ensures fast, accurate AF with enhanced performance in low-light situations.

The EOS 5D Mark II also features the innovative Highlight Tone Priority function, which takes full advantage of the imaging sensor's wide dynamic range and uses sophisticated exposure control and image processing to preserve greater detail in highlight areas.

The Canon 21.1-megapixel full-frame sensor combined with the latest-technology Canon DIGIC 4 Image Processor delivers images of stunning quality. Captured images exhibit exceptionally low noise even when shooting at higher ISO settings, making possible high-quality capture in a wide range of available light conditions. **72**

Switch from Stills to Video

The full-frame sensor and DIGIC 4 Image Processor also make it possible to shoot superb HD (high definition) video. The EOS 5D Mark II can shoot Full HD video at 1920 x 1080 pixels or SD (standard definition) video at 640 x 480 pixels with a frame rate of 30 fps. The camera provides an

HDMI output for full-resolution digital transfer of HD video to monitors, projectors, and other post-production equipment. **72**

Durable and Weather-Resistant

The EOS 5D Mark II features a body made of magnesium alloy making it exceptionally rigid and durable but still sufficiently lightweight to ensure superior portability and handling. The body is also extensively fitted with seals and gaskets to keep out moisture and dust. The result is a tough, dependable camera body that withstands the rigors of professional use. **72**

Canon REALiS SX80 Projector

REALiS projectors combine the brilliance and sharpness of LCOS (Liquid Crystal On Silicon) technology with Canon AISYS light engine technology. Native 1400 x 1050 (SXGA+) resolution and sRGB support assures crisp, detailed projected images, still or video. Its HDMI input supports Full HD (1080i/1080p) signals making it easy to view images directly from the EOS 5D Mark II.

Multiflash Lighting Without Wires

Canon EX-series Speedlites make multiple-flash photography simple. A master Speedlite flash unit or transmitter can wirelessly control an unlimited number of additional Speedlites, creating myriad possibilities for lighting, no matter the location. Fully adjustable master/slave output ratios, modeling flash, and advanced Canon E-TTL II flash exposure control make it easy to achieve the perfect lighting every time.

“Canon has gone beyond my wildest dreams...a camera with amazing speed, image quality and high ISO



capability with low noise...all packaged in a compact, durable body and it even does HD video. This camera is sure to be the stand out camera for wedding photography. The future of wedding photography is here!”

Clay Blackmore
Explorer of Light

Video Capture with Still-Camera Handling

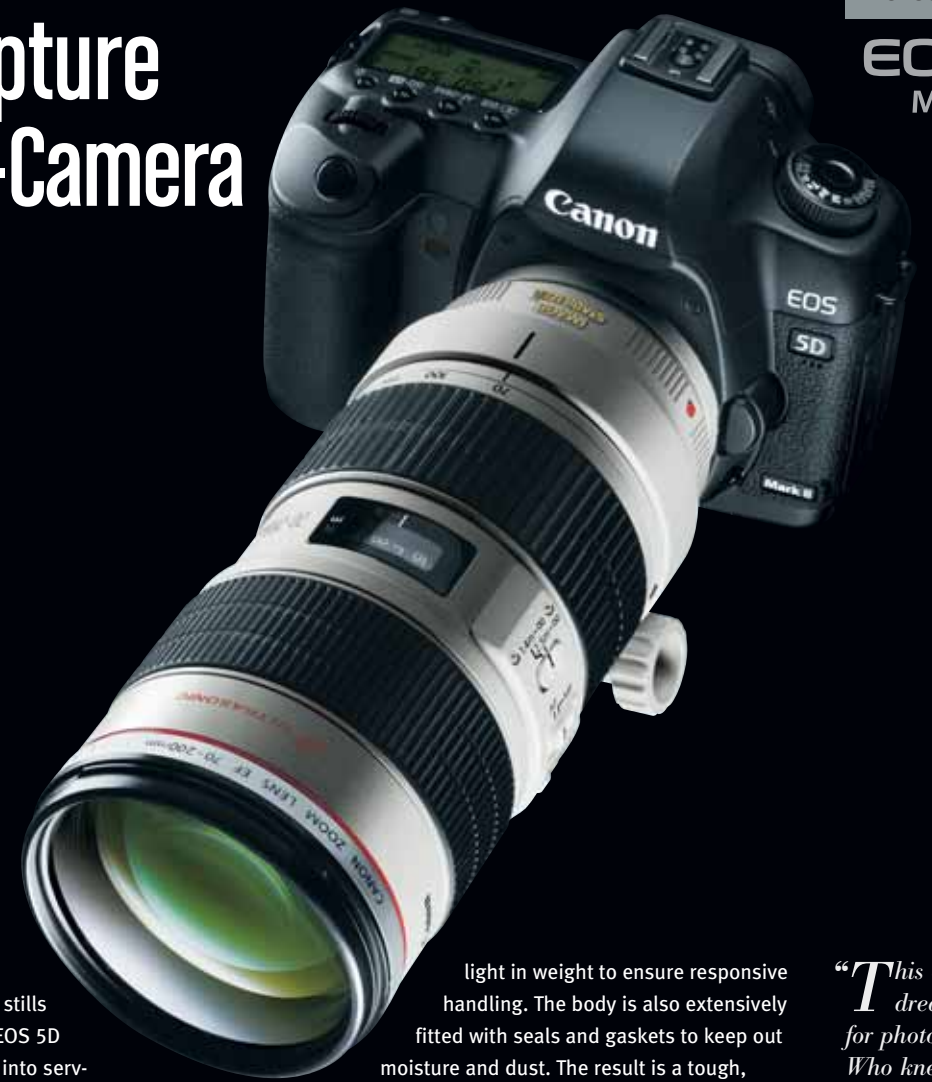


Image Quality Above All

DIGIC 4 Whether shooting stills or video with the EOS 5D Mark II, you press into service the most advanced Canon technologies, designed to set new standards for performance and quality. The full-frame Canon CMOS sensor, together with Canon DIGIC 4 Image Processor, enables low-noise image recording of unprecedented caliber. The EOS 5D Mark II also employs precision 14-bit A/D converters to process the output of the imaging sensor. This ensures smoother tonal transitions and more natural gradations. Tonal precision is further enhanced by the Highlight Tone Priority feature to preserve greater detail in image highlight areas. Dynamic range is effectively expanded in this critical range of exposure, making gradations smoother and minimizing loss of highlight detail. **70**



FULL FRAME
CMOS

The Full-Frame Optical Advantage

EOS Digital SLR cameras with full-frame sensors let you use EF Lenses exactly as you would with 35mm film SLR cameras.

Whether you are shooting stills or video with the EOS 5D Mark II, its full-frame sensor lets you use the entire range of superb Canon EF lenses without a conversion factor. You thereby take full advantage of the specific optical characteristics for which the lenses were designed. **70**

Professional Dependability and Durability

The EOS 5D Mark II body is made of magnesium alloy, making it exceptionally strong and durable but sufficiently

light in weight to ensure responsive handling. The body is also extensively fitted with seals and gaskets to keep out moisture and dust. The result is a tough, dependable camera body that stands up to the demands of professional use. **72**



Capture Video in Full HD

With the EOS 5D Mark II, shooting high-quality video no longer requires a separate piece of equipment. Just

switch to video mode and shoot Full HD 1920 x 1080 or SD video. Video is captured using the same 24 x 36mm, full-frame image sensor, ensuring detailed, high-resolution images. Superior video quality is further assured by MPEG-4 recording at a high data rate, which essentially eliminates compression artifacts and provides a smooth, detailed image. Record sound using the convenient built-in microphone or use the camera's audio inputs to capture stereo sound with an external mic.

The brilliant 3.0-inch Clear View LCD monitor provides Live View Function capability in still and video shooting modes. Its 920,000 dots/VGA resolution delivers an exceptionally detailed view, making it a superb video monitor for recording and playback. For full-resolution digital signal transfer to external monitors, projectors, and post-production equipment, the EOS 5D Mark II includes an HDMI output port. **72**

"This camera is a dream come true for photojournalism. Who knew it would be here so fast and would

be so revolutionary. Video with my DSLR, I'm in

heaven! My days as a photojournalist carrying around audio, video and stills to create compelling multimedia just got easier. The true 'one' tool for visual storytellers is here and it's amazing!"

Richard Koci Hernandez

Lights, Camera, Action!



Shooting Full HD with DSLR Advantages



FULL FRAME
CMOS

With more professional still photographers taking on crossover video shooting assignments, the EOS 5D Mark II fills a growing need. As a Canon EOS camera, you can use the entire range of EF lenses. And because the EOS 5D Mark II features a full-frame sensor, you don't have to concern yourself with conversion (crop) factors. Thus maximizing your control of factors such as depth of field.

Superb video quality is ensured by 14-bit A/D converters, ensuring smoother tonal transitions and more natural gradations. Tonal reproduction is further enhanced by the Highlight Tone Priority feature, preserving greater detail in image highlight areas. Dynamic range is effectively expanded in this critical range of exposure, making gradations smoother and minimizing loss of highlight detail.

The EOS 5D Mark II delivers video and still images of stunning quality. Captured images exhibit low noise, ensuring exceptional playback clarity, detail, and color purity. It also provides superior low-noise performance even when shooting at higher ISO settings, making possible high-quality capture in a wider range of light conditions. **70**



Picture Style

Simplified Custom Camera Settings

Picture Style provides a number of presets that eliminate the need to make numerous individual changes to camera settings. The EOS 5D Mark II provides six factory preset styles and three additional custom presets. The Picture Style you

select for the Live View mode is used for video recording. Therefore, all settings registered in that Picture style—such as sharpness, color saturation, etc.—will be reflected in the captured video footage. **74**

Tough and Dependable

The EOS 5D Mark II body is made of magnesium alloy, making it exceptionally strong and durable, yet lightweight. The body is also extensively fitted with seals and gaskets to keep out moisture and dust. Rugged build quality is augmented by the latest-generation Canon Self Cleaning Sensor Unit removing dust on the imaging sensor using ultrasonic vibration. A new fluorite coating on the front surface low-pass filter also helps prevent the accumulation of sticky and moist dust particles. **72**



Rapid, Responsive Still Shooting

A high-performance shutter assembly, fast autofocus system, advanced CMOS sensor, and state-of-the-art DIGIC 4 Image Processor combine to make the EOS 5D Mark II a nimble, responsive camera. Despite the huge amount of data associated with 14-bit, 21.1-megapixel image capture, the EOS 5D Mark II can shoot continuously at 3.9 fps. Shooting speed is also enhanced by UDMA (Ultra Direct Memory Access) CF cards compatibility, which enables you to use the newer, faster UDMA CF cards. **71**

“A camera that meets the needs of today’s photographers. A small step for man, a giant step for photographers. A camera that ‘moves’ the ‘still’ world.”



**Joachim
Ladefoged**

Exceptional Image Quality, Unmatched Versatility



Spectacular High-Resolution Capture

21.1 MEGA
PIXELS
CMOS

The EOS 5D Mark II incorporates a 21.1-megapixel full-frame sensor that delivers still and video images of exceptional low noise and are unsurpassed in clarity, detail, and color purity. The full-frame sensor enables you to use the entire range of Canon EF lenses with no need for conversion factors. For enhanced tonal reproduction, the EOS 5D Mark II incorporates Highlight Tone Priority, making gradations smoother and minimizing loss of highlight detail.

The EOS 5D Mark II also features Lens Peripheral Illumination Correction, which automatically corrects for light fall-off at the corners. Using a database of EF lenses, this corrective system works automatically at the time of capture when shooting JPEGs. With RAW images, the same correction can be performed using Canon DPP software. Another image enhancement features the Auto Lighting Optimizer, it automatically adjusts brightness and contrast during image processing. **74**

EOS

Integrated
Cleaning
System

Rugged Dependability

The EOS 5D Mark II body is made of lightweight magnesium alloy, making it easy to handle and transport without sacrificing strength and durability. The body is also highly weather resistant thanks to the extensive use of seals and gaskets to keep out moisture and dust. The weather-resistant design is complemented by the latest-generation Canon Self Cleaning Sensor Unit. Part of the EOS Integrated Cleaning System, it removes dust on the imaging sensor using ultrasonic vibration. **72**

Big, Bright, Clear View LCD Monitor

A 3.0-inch Clear View LCD (920,000 dots/VGA) monitor provides a large, bright, highly detailed display. The increased resolution makes it possible to view images with far greater detail and enhances the Live View Function capabilities. **73**

HDMI Output

The camera provides an HDMI output for full-resolution digital transfer of Full HD video to monitors, Canon REALiS projectors, and post-production equipment.

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

Advanced Flash Photography

The EOS 5D Mark II is fully compatible with the Canon Speedlite flash system. There are versatile solutions for macro photography such as the Macro Ring Lite MR-14EX, which features twin circular flash tubes that can be fired at equal or uneven power at ratios that can be varied over a six-stop range. The Macro Twin Lite MT-24EX provides a different, directional option for close-up, nature, and macro photography. With either macro flash unit, one or more compatible EX-series Speedlites can be used as wireless slaves for creative lighting solutions.

Canon E-TTL II flash exposure control uses the camera's evaluative metering sensor—the same sensor that reads ambient light. This sophisticated system compares light values and accurately calculates the flash output required for optimum illumination of the main subject and background. It ensures balanced, natural lighting, for example, when using fill flash.

"This is a great camera for outdoor/nature photographers! Its lightweight but sturdy body is easy to handle and perfect for field work. The 21.1-



megapixel full-frame sensor captures every detail of the landscape. The large, high-resolution LCD monitor with Live View is a real benefit for previewing images in the field. I'm especially excited about the high-definition video capabilities, a feature that makes this camera one of the most innovative and versatile creative tools I've seen yet."

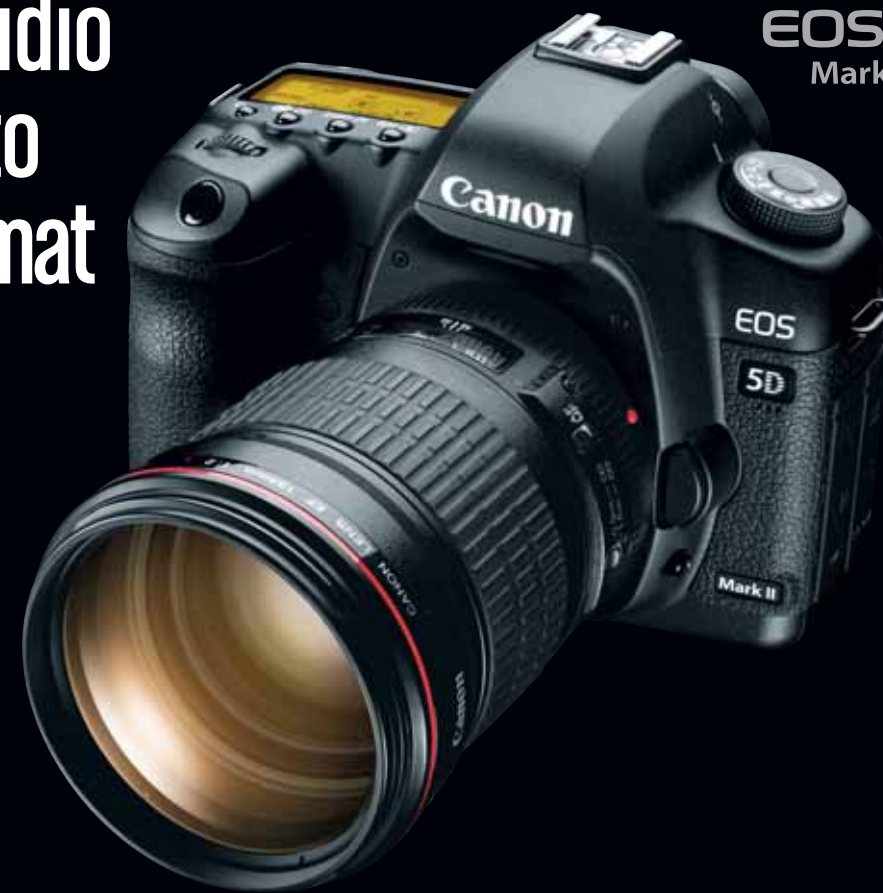
George Lepp

Explorer of Light | PrintMaster

Camera: EOS 5D Mark II
Lens: EF 16-35mm f/2.8L II USM
©2008 George Lepp All Rights Reserved

EOS 5D
Mark II

The New Studio Alternative to Medium Format



Richly Detailed, 21.1-Megapixel Image Recording

21.1 MEGA
PIXELS
CMOS

High-resolution imaging is a primary reason medium format digital cameras are popular among studio photographers. With Canon EOS high-megapixel full-frame cameras, many professionals are rethinking their camera system choice for studio work. Noise is exceedingly low, ensuring captures of unsurpassed clarity, detail, and color purity. Moreover, the EOS 5D Mark II is supported by the entire range of Canon EF lenses, a comprehensive system of optics with no equal in the medium format world.

WFT-E4A Wireless File Transmitter

The WFT-E4A provides added camera handling versatility while providing advanced wireless file transfer and networking functionality. Attached to the camera, the WFT-E4A serves as a vertical grip, duplicating basic camera controls for easier vertical shooting. It provides wireless network connectivity, enabling various “tethered” shooting options, such as remote viewing for studio clients. The WFT-E4A also has a USB port that can be connected to an external storage device, multiplying the camera’s recording media options. 

Wireless File Transmitter WFT-E4A

Easy Camera Handling


The EOS 5D Mark II offers many advantages of medium format cameras, such as high-resolution image capture

and high image quality. The big difference, of course, is that the EOS 5D Mark II is a Canon EOS SLR. The camera handling is responsive and system support is unequaled.

High-Resolution Live View Function Capability




A 3.0-inch Clear View LCD (920,000 dots/VGA) displays large, detailed images, enhancing the camera’s Live View shooting and

image playback capabilities. The EOS 5D Mark II also provides an HDMI output, which enables full-resolution digital transfer of Live View Function and playback images to in-studio HD monitors and projectors. 

Fast-Response Shooting



The EOS 5D Mark II incorporates a new high-performance shutter assembly, fast autofocus system, advanced CMOS sensor, and state-of-the-art DIGIC 4 Image Processor.

The combination of these technologies boosts camera performance, enabling continuous shooting at 3.9 fps despite the huge amount of data associated with 21.1-megapixel image capture. Camera response is also enhanced by UDMA compatibility, which enables you to use the newer, faster UDMA CF cards. 

“Having always been a big fan of the EOS 5D, the new Canon EOS 5D Mark II is an astounding step



forward with its 21.1-megapixel resolution full-frame sensor, superb image quality and 3.0-inch VGA LCD monitor in a compact, durable body. Now with the ability to record High Definition Video—what more could anyone ask for?”

Greg Gorman
Explorer of Light



Camera: EOS 5D Mark II
Lens: EF 14mm f/2.8L II USM
©2008 Tyler Stableford All Rights Reserved

Engineered to Let You Stay with the Action




ADVERTISING

EOS 5D
Mark II




Dependable Performance without the Extra Weight

The EOS 5D Mark II might be light in weight, but it's a "heavyweight" when it comes

to professional features and performance. The camera body is made of magnesium alloy, making it exceptionally strong and durable. The use of this advanced alloy, however, ensures weight is kept to a minimum, resulting in a camera that can be handled with ease and won't slow you down. The body is also extensively fitted with seals and gaskets to keep out moisture and dust. The result is a tough, dependable camera body that stands up to the demands of professional use. 


Remarkable Shooting Speed

A high-performance shutter assembly, fast autofocus system, advanced CMOS sensor design, and state-of-the-art DIGIC 4 Image Processor combine to deliver crisp camera response and fast continuous shooting speeds. The EOS 5D Mark II shoots at 3.9 fps despite the huge amount of data associated with 21.1-megapixel image capture. 



Astounding Image Quality

The new Canon 21.1-megapixel full-frame sensor combined with the latest-technology Canon DIGIC 4 Image Processor delivers the highest-quality image capture with exceptionally low noise. The EOS 5D Mark II maintains its


superior low-noise performance even when shooting at higher ISO settings, enabling the use of faster shutter speeds often needed in action photography. 

EOS


Integrated
Cleaning
System

Self Cleaning Sensor Unit

Photographers who must change lenses in dusty environments

will appreciate the latest-generation Canon Self Cleaning Sensor Unit. Part of the EOS Integrated Cleaning System, which uses both mechanical and software methods to effectively deal with dust accumulation on the imaging sensor, this newly designed self-cleaning unit employs an improved ultrasonic vibration mechanism and a new fluorite coating on the front surface low-pass filter that better repels sticky and moist dust particles. 

Large, High-Resolution LCD Monitor

A 3.0-inch Clear View LCD monitor with significantly increased resolution (920,000 dots/VGA) makes it possible to view images with far greater detail. The large overall size makes the display easier to use and more informative than ever. The screen's superior brightness ensures excellent viewing ability even in bright outdoor conditions. A built-in ambient light sensor automatically adjusts screen brightness as needed. 

"When I'm shooting on a rock wall or a mountainside, I want to be able to capture world-class



images with the lightest possible equipment.

For this shot, I used Canon's EF 14mm f/2.8L II USM lens to capture both Jessa and the beautiful alpine environment. The EOS 5D Mark II's high-definition video capabilities revolutionize the way I work. With web and multimedia presentations playing crucial roles in our profession, capturing high-quality video alongside stills is more important than ever."

Tyler Stableford
Explorer of Light

CANON DIGITAL
LEARNING CENTER

Visit the CDLC for further insight
BEYOND THE BROCHURE
www.usa.canon.com/beyondthebrochure

Advanced Technologies Matching High Expectations

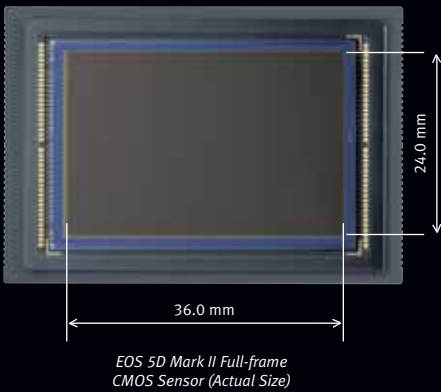
Overview:

A New-Generation High-Performance Full-Frame DSLR

The Canon EOS 5D Mark II is an exceptional digital SLR, perfect for professional photographers as well as serious digital photography enthusiasts seeking a camera a cut above typical offerings. Featuring a newly developed Canon 21.1-megapixel full-frame CMOS sensor, the latest-generation Canon DIGIC 4 Image Processor, 14-bit A/D conversion, and numerous performance enhancements, the EOS 5D Mark II delivers outstanding image capture capability while expanding traditional DSLR functionality.

Image Quality

Newly Developed Full-Frame CMOS Sensor



The EOS 5D Mark II incorporates the newest Canon CMOS sensor, which delivers an imaging resolution of approximately 21.1 effective megapixels. The recording area of the sensor is 36.0 x 24.0mm, which is equivalent to the full-frame size of the 35mm film format. Compared to typical smaller digital camera sensors, the Canon full-frame sensor can accommodate a tremendous pixel count while maintaining a larger individual pixel site size for superior light gathering characteristics. Moreover, full-frame sensors enable photographers to take full advantage of the entire range

of superb Canon EF lenses without a conversion factor. That means lenses perform at their best, making optimal use of the specific optical characteristics for which they were designed. This is an important benefit for photographers who have sizable EF lens collections.

Next-Generation DIGIC 4 Image Processor



The Canon DIGIC Image Processor is a high-performance imaging engine that has been a major distinguishing

feature of Canon digital cameras. Designed and manufactured by Canon, the DIGIC Image Processor features proprietary algorithms and high-speed signal processing, delivering superb image detail, natural color reproduction, superior camera responsiveness, and reduced power consumption. Successive generations of Canon DIGIC technology have brought about steady improvement in processing speed and image quality, providing the necessary power to deal with the increased volume of data generated by imaging sensors of ever-increasing pixel dimensions.

The DIGIC 4 Image Processor in the EOS 5D Mark II incorporates the latest Canon technologies, elevating imaging performance to unprecedented heights. While retaining all of the best features of its predecessors, the DIGIC 4 Image Processor ensures the most natural color reproduction and handles the high-resolution data from the 21.1-megapixel CMOS sensor at the high speeds required to assure instantaneous camera response.

Moreover, the DIGIC 4 Image Processor makes possible, for the first time, uniquely advanced features, such as HD video recording, Live View Function with face detection AF, and Auto Lighting Optimizer (all described later).

High-Resolution Image Capture

The 21.1-megapixel Canon CMOS sensor captures images with extraordinary detail and acuity. The generous pixel dimensions (5616 x 3744) not only assures uncompromised image quality at enormous print output

sizes but also provides unprecedented image cropping flexibility. In many professional applications, the EOS 5D Mark II makes it unnecessary to use medium-format cameras to capture sufficient image detail.

Advanced 14-bit A/D Conversion

The extra power of the DIGIC 4 Image Processor enables far greater precision in the analog-to-digital conversion of the data from the CMOS sensor. The EOS 5D Mark II improves A/D conversion from 12 to 14 bits per channel, that tonal gradations for RAW images are now represented by 16,384 separate levels per channel rather than 4,096. When saved as a 16-bit TIFF image, the image retains the full range of tones captured at 14 bits. Also, JPEG images, at 8 bits per color channel, are generated from the 14-bit data. Artifacts related to limited dynamic range, such as tonal skipping and highlight clipping, are thereby reduced substantially, improving gradation, detail, and overall image quality.

Exceptional ISO Range

The superior design of the EOS 5D Mark II CMOS sensor has advanced image capture capabilities and improved sensitivity. Combined with the sophisticated performance



of the DIGIC 4 Image Processor, the EOS 5D Mark II delivers the widest ISO range to date in a Canon EOS Digital SLR—a remarkable 100–6400 in standard mode, selectable in 1/3-stop increments. In extended range mode, the available ISO settings are 50, 12800 and 25600. More importantly, the combined low-noise performance of the sensor and image processor makes the higher ISO settings usable in real-world shooting situations.

Outstanding Low-Noise Performance

The EOS 5D Mark II CMOS sensor features the latest-generation on-chip noise-reduction technology. To achieve its remarkable performance, this design incorporates a novel feed-through output amp that ensures both high speed capture and low noise. Noise is further reduced by

an improved manufacturing process, an optimized pixel amp, and an optimized reading circuit.

Superior image quality is also ensure by an improved noise reduction system, which can be used for long exposures and high-ISO shooting. A Custom Function can be used to select automatic noise reduction with long exposures. Similarly, a Custom Function enables the photographer to fine-tune the degree to which noise reduction is applied when shooting at high ISO settings. New on the EOS 5D Mark II is the ability to select all but the strongest noise reduction setting without adversely affecting the maximum burst shooting speed in continuous mode.

New RAW Recording Options

RAW capture is a must for photographers who wish to maintain maximum control over their images using a variety of post-processing options. The EOS 5D Mark II augments traditional RAW recording by providing three RAW capture modes. The standard RAW mode provides a maximum resolution of 5616 x 3744 pixels (approximately 21 megapixel) image. The new sRAW1 and sRAW2 modes capture at 3861 x 2574 (approx. 10 megapixles) and 2784 x 1856 (approx. 5.2 megapixels) pixels, respectively. These new RAW recording options greatly enhance shooting flexibility, enabling the photographer to select pixel dimensions appropriate to the assignment and reducing file sizes whenever possible to streamline processing.

Recording Quality Specifications: EOS 5D Mark II

Image Size	Pixels [Approx. MB]	File Size [Approx. MB/Shot]	Possible Shots [Approx.]	Maximum Burst [Approx.]	Printing Size [Inch]	Image Size	Pixels [Approx. MB]	File Size [Approx. MB/Shot]	Possible Shots [Approx.]	Maximum Burst [Approx.]	Printing Size [Inch]
JPEG	L1	21.00 (5616 x 3744)	6.1	310	78 (310*)	RAW+S1	10.00 (3861 x 2574)	25.8 + 2.1	66	8 (8)	RAW: 16.5x23.4 or larger
	L2		3.0	610	610* (610*)	RAW+S2	11.00 (5616 x 3744)	25.8 + 1.0	69	8 (8)	IPEG: Around 11.7x16.5
	M1	11.10 (4080 x 2720)	3.6	510	330 (510*)	S RAW1+L1	10.00 (3861 x 2574)	14.8 + 6.1	89	8 (8)	sRAW1: Around 11.7x16.5
	M2		1.9	990	990* (990*)	S RAW1+L2	11.10 (5616 x 3744)	14.8 + 3.0	100	8 (8)	IPEG: Around 11.7x16.5
	S1	5.20 (2784 x 1856)	2.1	910	910* (910*)	S RAW1+M1	10.00 (3861 x 2574)	14.8 + 3.6	100	8 (8)	sRAW1: Around 11.7x16.5
	S2		1.0	1680	1680* (1680*)	S RAW1+M2	11.10 (4080 x 2720)	14.8 + 1.9	110	8 (8)	IPEG: Around 11.7x16.5
RAW		21.00 (5616 x 3744)	25.8	72	13 (14)	S RAW1+S1	10.00 (3861 x 2574)	14.8 + 1.0	110	8 (8)	sRAW1: Around 11.7x16.5
S RAW 1		10.00 (3861 x 2574)	14.8	120	15 (15)	S RAW1+S2	11.10 (5616 x 3744)	14.8 + 1.0	110	8 (8)	IPEG: Around 11.7x16.5
S RAW 2		5.20 (2784 x 1856)	10.8	170	20 (20)	S RAW2+L1	5.20 (2784 x 1856)	10.8 + 6.1	110	8 (8)	sRAW1: Around 11.7x16.5
RAW+L1		21.00 (5616 x 3744)	25.8 + 6.1	57	8 (8)	S RAW2+L2	11.10 (5616 x 3744)	10.8 + 3.0	130	8 (8)	sRAW1: Around 11.7x16.5
RAW+L2		21.00 (5616 x 3744)	25.8 + 3.0	64	8 (8)	S RAW2+M1	5.20 (2784 x 1856)	10.8 + 3.6	130	8 (8)	sRAW1: Around 11.7x16.5
RAW+M1		21.00 (5616 x 3744)	25.8 + 3.6	62	8 (8)	S RAW2+M2	11.10 (4080 x 2720)	10.8 + 1.9	140	8 (8)	IPEG: Around 11.7x16.5
RAW+M2		11.10 (4080 x 2720)	25.8 + 1.9	67	8 (8)	S RAW2+S1	5.20 (2784 x 1856)	10.8 + 2.1	140	8 (8)	sRAW1: Around 11.7x16.5
						S RAW2+S2	11.10 (5616 x 3744)	10.8 + 1.0	150	8 (8)	IPEG: Around 11.7x16.5

The number of possible shots and maximum burst are based on Canon's testing standards and a 2GB CF card. Under Maximum burst, the number in parentheses is the maximum burst with a UDMA-compatible 2GB CF card used in Canon's testing standards. JPEG L1, ISO 100, Picture Style: Standard, Custom Function: Default settings. The actual file size, number of possible shots, and maximum burst will vary depending on the subject, memory card brand, image-recording quality, ISO speed, Picture Style, Custom Function settings, etc. * Shooting is possible until the card becomes full.

Performance: Precision and Speed

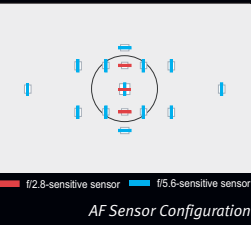
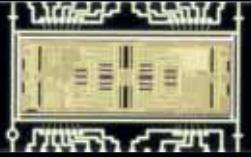
Fast, Accurate, Autofocus

The EOS 5D Mark II features outstanding autofocus performance, a hallmark of EOS SLR cameras.

Nine AF points make it easier to lock onto subjects, even if they are not centered in the composition. There are also six supplemental assist points around the center AF point, which can significantly improve focus tracking accuracy with moving subjects when using the AI Servo AF mode. Three of the center AF points are sensitive at f/2.8, which enhances available light autofocus performance.

Moreover, the EOS 5D Mark II autofocus system incorporates an advanced automatic compensation system that virtually eliminates the focusing errors that can occur with different light sources. By sensing the spectral characteristics of the scene's lighting and automatically making appropriate adjustments, this AF system ensures greater focusing precision, especially when shooting in artificial light.

For shooting situations that call for manual



AF point selection, a quick press of the AF point selection button on the EOS 5D Mark II enables the user to quickly make a choice, using the Multi-controller, Main Dial, or Quick Control Dial. As with other EOS cameras, multiple AF modes are provided: One-Shot AF, AI Focus AF, and AI Servo AF. As with the EOS-1 series cameras, the EOS 5D Mark II has a dedicated AF Start button.

AF microadjustment can be performed globally (for all lenses) or individually for each lens in a photographer's arsenal. Up to 20 lenses can be programmed for AF microadjustment.

Rapid Continuous Shooting Speed

A new high-performance shutter assembly, the fast autofocus system, the advanced CMOS sensor, and the state-of-the-art DIGIC 4 Image Processor combine to endow the EOS 5D Mark II with outstanding responsiveness and shooting speed. Despite the huge data handling requirements associated with 21.1-megapixel image capure, the EOS 5D Mark II can shoot continuously at 3.9 fps. It can also capture up to 78 consecutive full-resolution JPEG images or up to 13 RAW images in a single continuous burst.

Superb Exposure Control

The EOS 5D Mark II incorporates a sophisticated 35-zone metering sensor linked to the nine AF points. The following metering modes are provided: evaluative, partial, spot, and center-weighted average. Partial metering reads approximately 8% of the viewfinder and spot metering reads approximately 3.5%. With the optimized 35-zone metering sensor and improved algorithms, the EOS 5D Mark II provides more consistent and correct ambient and flash exposures in a wider variety of difficult shooting situations.

A new shooting mode has been added to the Mode Dial: Creative Auto (CA). It starts with same settings as the Full Auto mode, but it enables frequently used functions to be modified easily. Ideal for less experienced shooters who nonetheless desire a measure of custom control, Creative Auto provides a basic guide at the bottom of the LCD monitor. Adjustments can also be made via a single screen that display all modifiable parameters.

Full HD Video Recording

New Video Shooting Capability

Still photographers who also need to capture motion picture video will find the video recording capabilities of the EOS 5D Mark II highly useful, often eliminating the need to carry a separate camcorder. The EOS 5D Mark II can shoot video at Full HD (High Definition) at



1920 x 1080 pixels or SD (Standard Definition) at 640 x 480 pixels. The frame rate is 30 fps.

To begin video shooting, the user simply presses the SET button while the camera is in Live View mode. Pressing SET again ends recording. The maximum file size of individual video clips is 4GB. This works out to approximately 12 minutes of footage when shooting in HD, and 24 minutes shooting SD. There is no real delay before being able to start the next new video clip, and the only limit to the number of clips you can shoot is the size of your memory card. Videos are recorded as MOV files (with MPEG-4 compression), and the sound is recorded using uncompressed linear PCM (pulse code modulation).

The Picture Style selected for the Live View mode is used for video recording. Thus, adjustments to a Picture style — such as sharpness, color saturation, etc. — will be reflected in the captured video footage.

Focus is performed prior to the start of video recording. As with still shooting, the user can focus manually or use one of three AF

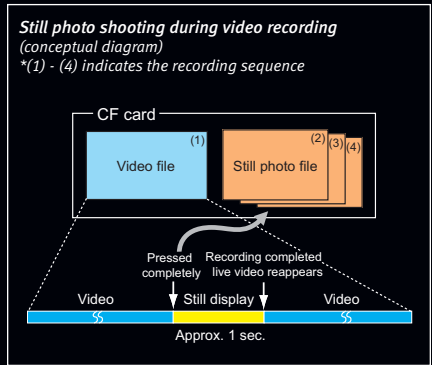
modes. Focus can be reacquired in the midst of video shooting using the AF Start button. Program AE is used for exposure control with all video recording. The image sensor is used for metering, and exposure is calculated in real time using an evaluative algorithm.

A built-in microphone below the camera nameplate records monaural sound. Stereo recording is possible with an external stereo microphone connected to the camera's mic

input connector (a standard 3.5mm stereo jack). Audio levels are automatically adjusted whether recording with the built-in or an external microphone.

Still photos can be captured at any time during video recording simply by pressing the shutter release button. The photo

is captured at the currently active still image quality settings. Video recording is momentarily interrupted while a still photo is being captured; the Live View Function returns and video recording automatically resumes as soon as the still capture is completed.



Video can be played back on the EOS 5D Mark II LCD monitor with sound reproduced via a built-in speaker located to the right of the viewfinder eyepiece. Playback options include standard and slow motion replay (with variable speed) and various still-frame capabilities.

Rugged, Durable Design

Magnesium-Alloy Body



Magnesium Alloy Chassis

Magnesium alloy is known for its excellent strength-to-weight ratio. Because the EOS 5D Mark II body is constructed of magnesium alloy, the camera is exceptionally rigid and durable while maintaining a light weight that promotes superior portability and handling. The magnesium alloy also functions as an electromagnetic shield, providing added data protection. Above all, the EOS 5D Mark II is built to withstand heavy-duty use, providing reliable long-term performance even under harsh conditions.

New Shutter, Tested to 150,000 Cycles

The EOS 5D Mark II shutter assembly features superior durability and advanced capabilities.



Shutter unit

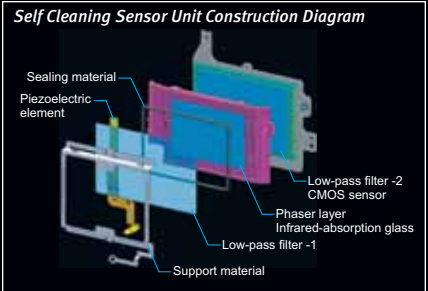
It is rated for 150,000 shutter cycles, a durability rating surpassed only by the EOS-1 series digital SLR cameras. It also continues to ensure high precision and outstanding performance, providing a maximum shutter speed of 1/8000 second, x-sync at 1/200 second, and continuous shooting speeds of up to 3.9 fps with a full-frame sensor. The refined design of the shutter also enables the camera's extensive Live View shooting capabilities.

Improved EOS Integrated Cleaning System

Professional photographers, especially those

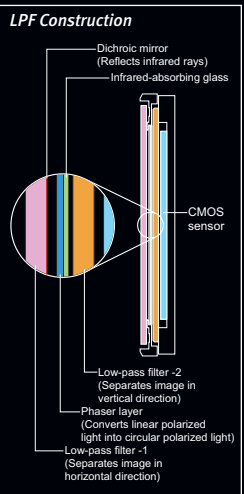


Self Cleaning Sensor Unit



who must change lenses in dusty environments, have universally praised the Canon EOS Integrated Cleaning System. It uses both mechanical and software methods to effectively deal with dust accumulation on the imaging sensor. Dust that settles on the sensor surface is removed using ultrasonic vibration. This self-cleaning routine is automatically activated whenever the camera is powered on or off. (It can also be manually activated.) A special collar positioned around the sensor collects the loosened dust. Moreover, by shooting a plain white subject, the photographer can acquire dust delete data that is transmitted along with the image (whether JPEG or RAW). Canon Digital Photo Professional (DPP) software can then be used to manually or automatically erase the dust spots, potentially saving a tremendous amount of time in post-processing.

The EOS 5D Mark II incorporates the latest-generation Integrated Cleaning System. The Self Cleaning Sensor Unit is newly designed, optimized for the EOS 5D Mark II's full-frame sensor and improved with a more effective ultrasonic vibration mechanism. The low-pass filter on the front surface also has a new fluorine coating, which has a high resistance to dust adhesion. Sticky and moist dust particles, which have always been difficult to loosen by vibration alone, are now more effectively moved.



Professional Features

High-Resolution 3.0" Clear View LCD Monitor

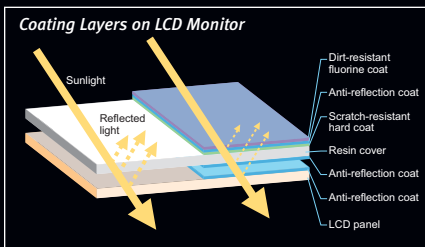
A new high-performance LCD monitor provides large, detailed image and informational display. The brilliant 3.0-inch Clear View LCD features approximately 920,000 dots, providing 100% image area coverage and a wide viewing angle



of 170° (both vertically and horizontally). Superior brightness ensures excellent viewing ability even in bright outdoor conditions. A built-in light sensor below the monitor is used to automatically adjust screen brightness to suit the ambient light conditions. Automatic adjustment selects dark, standard, or bright, however, the user can choose manual adjustment over a range of seven brightness levels.

The increased resolution of the LCD monitor makes it possible to view images with far greater detail, making it easier for shooting judgments and camera adjustments, especially when using the Live View Function. The large size and pixel dimensions make the LCD easier to use and more informative than ever.

The screen also features a new panel coating that is more smudge resistant and provides superior anti-reflection and water-repellent properties. The monitor can thus be viewed more clearly in a greater variety of shooting situations.



Expanded Live View Function Capabilities

The EOS 5D Mark II enables the LCD monitor to be used for Live View Function in all capture modes, whether shooting still photos or movies in Full HD or SD. Live View Function settings can be accessed via a centralized function screen for easier use.

Via the Function screen, the user can enable or disable the Live View Function and choose whether to use it for stills only or for both stills and movies. In Live View mode, the camera uses evaluative metering via the image sensor. Most shooting options—



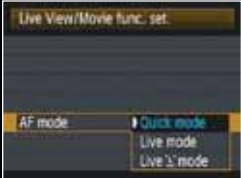
Live View Setting Screen

such as drive mode, ISO speed, Picture Style, white balance, and AF mode (see right)—can be selected while in Live View Function.



Screen Display Setting Screen

Three screen settings automatically adjust display brightness to suit the mode of operation. The Still Display setting makes the Live View image easier to see with standard still exposures. The image is shown at maximum lens aperture unless the depth-of-field preview button is pressed, in which case Live View image simulates the actual picture brightness as well as the depth of field. The Exposure Simulation setting provides a preview of expected changes to the capture image when shutter speed or aperture changes are made or exposure compensation is used. The Movie Display setting provides optimal brightness for video shooting. The video capture frame is indicated by a semi-transparent mask superimposed on the screen area, showing the video recording field of view and aspect ratio. The Movie Display setting is automatically selected during any video shooting.



AF Mode Screen

For still shooting, the EOS 5D Mark II's Live View Function provides a choice of three AF modes. In Quick mode, the AF sensor is used for phase-difference detection. One-Shot AF is automatically selected, and the user can select an AF point even while the image in Live View Function is displayed. When the AF Start button is pressed, the mirror goes down, momentarily interrupting the live display. After autofocus has executed, the mirror flips up automatically and the image in Live View Function is restored. The Live mode uses the image sensor to perform contrast-detection AF. The multicontroller can be used to select the AF point, and the AF Start button initiates autofocus. The Face Detection Live mode uses contrast AF to detect the human face. If multiple faces are detected, the face closest to the center and/or the largest face is automatically selected as the autofocus point. The photographer can use the multicontroller to select a different face for AF as desired.

A Grid Display can be superimposed during Live View Function to aid in composition. There are two grid choices: two horizontal and two vertical or five vertical and three horizontal lines.

The EOS 5D Mark II also provides Silent Shooting options that can be used during Live View Function. The CMOS sensor features an electronic first-curtain shutter function, enabling exposures to be made while the mechanical shutter is open. This significantly reduces shutter noise, making it possible to shoot in situations that demand quiet camera operation.

Highlight Tone Priority

Activated via a Custom Function on the EOS 5D Mark II, the Highlight Tone Priority feature employs advanced exposure and processing algorithms, taking advantage of the sensor's increased dynamic range to preserve greater detail in image highlight areas—a perennial problem for digital photographers, especially in bright sunlight or contrasty studio lighting. This feature extends the usable capture range of highlights by about one stop and improves gradation within highlight areas. By expanding the range from the correct exposure level (18% gray) to the maximum allowable highlight level, the gradation from the grays to the high-

lights becomes smoother and loss in highlight detail is minimized. Depending on shooting conditions, noise in the shadow areas may increase slightly.

Auto Lighting Optimizer

When shooting with the EOS 5D Mark II, the photographer can use the Auto Lighting Optimizer to automatically adjust brightness and contrast during image processing. This process can dramatically improve the tonal qualities of an image, providing a more pleasing rendition and greater visual impact. It is automatically selected when shooting in the Full Auto or Creative Auto mode. In all other shooting modes, the user can select standard, weak, or strong processing as well as an option to disable.

Lens Peripheral Illumination Correction

This powerful feature automatically corrects for light fall-off at the four corners of an image with many lenses. Since peripheral illumination characteristics vary for each lens, this corrective system relies on a registered database. With JPEG images, the correction is performed in-camera at the time of capture. With RAW images, the same correction can be performed post-capture using Canon DPP software. The EOS 5D Mark II includes pre-registered data for approximately 30 Canon EF Lenses. The camera can, however, store correction data for about 40 EF Lenses. Lens data can be added or deleted using the EOS Utility. When enabling the correction feature, the user will be informed whether or not data for the lens in use has been registered in the camera. When the feature is enabled, correction is automatically applied whenever there is corresponding data for the attached lens.

Picture Style Presets

The myriad features and settings available to the digital SLR user can be daunting. Even the most proficient professional might occasionally

have doubts as to whether all of the camera settings are optimal for the shot. The ingenious Canon Picture Style feature comes to the rescue, providing a number of user-friendly presets that eliminate the need to make numerous individual changes to camera settings. They enable the photographer to make optimal choices based simply on the type of shooting. The EOS 5D Mark II provides six factory preset styles and enables the user to program three additional custom presets.

1. **Standard** – For crisp, clean images with good sharpness and vivid color reproduction—ideal for general shooting, requiring little to no post-processing.
2. **Portrait** – Color settings are optimized for pleasing skin tone reproduction. Slightly weaker sharpening than the Standard mode yields more natural skin and hair detail.
3. **Landscape** – Color settings are optimized for deep blues and greens for more saturated skies and greenery. Slightly stronger sharpening than the Standard mode yields more crisply defined image elements, such as mountains, trees, and buildings.
4. **Neutral** – Provides natural color reproduction with no in-camera sharpening applied—a good choice for images that will be post-processed.
5. **Faithful** – Delivers the most accurate color rendition when shooting under 5200K lighting. No in-camera sharpening is applied.
6. **Monochrome** – All parameters are optimized for black-and-white photography.

Modifiable parameters in Picture Styles include sharpness, contrast, color saturation, color tone, filter effect, and toning effect. To create a custom Picture Style, the user can start with one of the base style presets above and modify it before saving as a user defined preset; or, for even greater creative control, use the included Picture Style Editor software to create a specific and unique user defined style.



Picture Style Screen



Peripheral Illumination Correction Screen

Recording Media Versatility

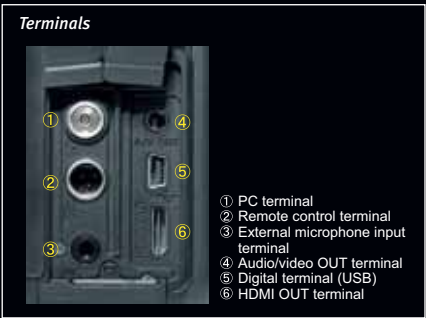
In addition to capturing to CF cards, the EOS 5D Mark II can record to any external medium using a USB interface—such as a USB hard drive—via the optional Wireless File Transmitter WFT-E4A. In Standard recording mode, the camera records to the inserted CF card. In Automatic Switching mode, the camera will automatically switch to a second connected medium when the first medium becomes full to ensure uninterrupted shooting. Using the Separate recording mode, the user can assign different media to record images with different recording quality (e.g., simultaneous JPEG and RAW capture, each on its own dedicated medium). Multiple recording mode puts simultaneous identical image files on primary and secondary recording media. At any time after capture, the user can back up recorded images from one medium to another.

UDMA Recording

The EOS 5D Mark II is fully compatible with the UDMA (Ultra Direct Memory Access) CF cards, which provide faster write/read performance.

Important Capture Information

Every image captured is accompanied by important peripheral information, including the photographer's and copyright holder's names. This information is added to the EXIF data, which are recorded with each image. The EOS 5D Mark II enables the information to be checked and, if desired, deleted. Moreover, the information can be edited and registered to the camera using the EOS Utility.



System Accessories for Enhanced Versatility and Capability



5D Mark III with Wireless File Transmitter WFT-E4A

Wireless File Transmitter WFT-E4A

The WFT-E4A gives the EOS 5D Mark II body added handling versatility while providing wireless file transfer and networking functionality. Attached to the camera, the WFT-E4A serves as a vertical grip, duplicating basic camera controls for easier vertical shooting. It provides wired or wireless network connectivity, and its USB port can be connected to an external storage device, multiplying the camera's recording media options. The unit is powered by one LP-E6 lithium-ion battery (see below), the power from which is not used to augment the camera's own power supply in any way.

New High-Capacity LP-E6 Battery Pack

Although about the same size as previous battery packs, the new LP-E6 lithium-ion battery features significantly boosted capacity (1800mAh). It also incorporates an information transmission feature, which enables photographers to more accurately assess remaining capacity



and recharge performance. Each LP-E6 pack has a unique embedded serial number, and up to six packs can be registered with the EOS 5D Mark II. This makes it possible to keep track of usage history and performance, information which can be read on the camera's display.



Battery Information Screen



Battery History Screen

Battery Grip BG-E6



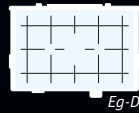
A dedicated battery grip for the EOS 5D Mark II, the BG-E6 houses two LP-E6 Battery Packs. With the Battery Magazine BGM-E6, six AA/LR6 alkaline batteries can be used as an alternate power source. For easier vertical shooting, the BG-E6 duplicates the following camera controls: shutter release, main dial, AF point selection control, AE lock button, and AF Start button. The vertical camera controls on the grip can also be disabled using the on/off switch.

New Focusing Screens

In addition to the Eg-A Precision Matte screen, which is standard equipment on the EOS 5D Mark II, photographers can choose from two additional optional focusing screens: the Eg-D Precision Matte with Grid and Eg-S Super Precision Matte.



Eg-S



Eg-D



Eg-A

EOS 50D

The Featured Professionals

An Affordable DSLR for Demanding Photographers

A remarkable combination of imaging performance, high-speed shooting capability, advanced features, and a compact smooth-handling design, the EOS 50D answers the call for a wide range of photographers, including professionals and serious enthusiasts. It features an APS-C size 15.1-megapixel Canon CMOS sensor for superior image capture and a new DIGIC 4 Image Processor for refined performance and capabilities. It delivers outstanding, low-noise images, even at higher ISO settings. With a superb 3.0-inch Clear View LCD monitor (920,000 dots/VGA), expanded Live View shooting capabilities, plus new automatic image enhancement technologies, the EOS 50D is a stellar DSLR, ready to deliver imaging excellence as a primary camera or a backup body.

WEDDING



**Hanson
Fong**

Explorer of Light

Putting the System to Work

Hanson Fong is recognized as one of the premier wedding photographers in the industry today. His work has been displayed in prestigious venues, such as the Hall of Fame and the Epcot Center. He has lectured at every major school of photography across America and his work has received high critical acclaim throughout the world. The tremendous versatility and solid dependability of the EOS System make it Hanson's professional workhorse.

TRAVEL



**Lewis
Kemper**

Explorer of Light

Dependability in the Field

Lewis Kemper is a renowned outdoor photographer whose work is ubiquitous. His images have been seen in editorial and commercial usage in over 16 different countries and in print media ranging from national ads to book covers. Lewis is currently a contributing editor and columnist for *Outdoor Photographer* and *PC Photo*. For demanding outdoor shooting, EOS is Lewis's "go to" system for reduced size and weight without sacrificing professional features.

COMMERCIAL



**Douglas
Kirkland**

Explorer of Light

Tools for the Professional's Travel Bag

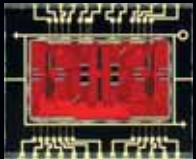
Douglas Kirkland worked for *Look* and *Life* magazines during the '60s and '70s—the "golden age" of photojournalism. A highly respected fashion and celebrity photographer, Douglas has worked on the sets of over one hundred motion pictures, making him one of the most sought-after entertainment industry photographers. With so much travel in his schedule, he relies on the EOS System to deliver lightweight, professional solutions.





Camera: EOS 50D
Lens: EF 70-200mm f/4L IS USM
©2008 Hanson Fong All Rights Reserved

Ready to Take on the Toughest Assignments



EOS 50D AF Sensor

Dependable Autofocus, Even in Low Light

The EOS 50D features outstanding autofocus performance, employing nine cross-type AF points to lock onto subjects, even if they are not centered in the composition. The center AF points are an advanced, diagonally mounted cross-type that enhances vertical and horizontal sensitivity at the widest lens apertures. They assure superior available light autofocus performance in a greater number of low-light shooting situations. **88**



Improved Low-Noise Performance

Superior image quality is also assured by an improved noise reduction system, which can be used for long exposures and high-ISO shooting. The DIGIC 4 Image Processor has significantly improved noise reduction effectiveness, greatly reducing compromise in image detail when noise reduction is applied. With the EOS 50D, you can also select all but the strongest noise reduction setting without adversely affecting the maximum burst shooting speed in continuous mode. **88**

Outstanding Image Quality

The Canon 15.1-megapixel CMOS sensor, the DIGIC 4 Image Processor, and other advanced technologies, such as 14-bit A/D conversion, deliver the highest-quality image capture. The photographs you shoot with the EOS 50D will stand out for their extraordinary detail, color, and dynamic range. The photodiode design in the EOS 50D CMOS sensor also ensures superior low-noise performance when shooting at higher ISO settings. **88**



Better Flash Illumination

Canon E-TTL II flash exposure control system compares light values and accurately calculates the flash output required for optimum illumination of the main subject and background. It ensures balanced, natural lighting, for example, when using fill flash. When you use Canon Speedlite flashes with the EOS 50D, you have at your disposal the most advanced flash lighting system available.

Heavy-Duty but Light Around Your Neck

The EOS 50D is the perfect camera for assignments that require a light, nimble DSLR body capable of quality image capture. The compact design of the 50D features top, front, and rear covers made of magnesium alloy, known for its outstanding strength and light weight. The body's basic chassis is constructed of stainless steel for superior durability. The EOS 50D also incorporates a high-performance shutter tested and rated to operate reliably over 100,000 cycles.

HDMI Output

The EOS 50D provides HDMI output, which enables the transmission of images captured by the camera to a High Definition television monitor for group viewing.



“In my world of wedding photography you only have one chance. A professional camera must be



rugged, lightweight, fast and able to

produce the imagery with the quality my clients expect. The EOS 50D fits that profile with a large 3.0-inch screen and state-of-the-art 15.1 megapixel Canon CMOS sensor.”

Hanson Fong

Explorer of Light



Camera: EOS 50D
Lens: EF 100–400mm f/4.5–5.6L IS USM
©2008 Lewis Kemper All Rights Reserved

Unsurpassed Image Quality and Dependability



TRAVEL

EOS 50D

High-Resolution Capture

15.1 MEGA PIXELS
CMOS

The EOS 50D incorporates a Canon 15.1-megapixel APS-C size CMOS sensor that delivers images of superlative quality.

Captured images exhibit exceptionally low noise and are unsurpassed in clarity, detail, and color purity. Moreover, the high-resolution detail ensures a wide range of possible photographic applications as well as expanding post-production enlargement and cropping options. **86**

Exceptional Image Quality

The combination of the Canon 15.1-megapixel CMOS sensor, the latest DIGIC 4 Image Processor, and other advanced technologies, such as 14-bit A/D conversion, ensures the highest-quality image capture. Image detail, color, and dynamic range are impeccable. Plus, the EOS 50D maintains its superior low-noise performance even when shooting at higher ISO settings, enabling the use of faster shutter speeds often needed in action photography. **86**

High-Performance D-SLR Made to Travel

The compact, lightweight design of the EOS 50D makes it the ideal DSLR for professionals who need to carry extra camera bodies or shoot in high-activity situations. The EOS 50D body is an especially good match for the ultra-compact EF-S 18–200mm f/3.5–5.6 IS lens. This combination is perfect for “grab and go” shooting—light, easy-handling, covering everything from ultra-wide to super-telephoto—enabling you to capture superb images in just about any situation imaginable.

Dependable, Durable Camera

The top, front, and rear covers of the EOS 50D body are made of magnesium alloy, known for its outstanding strength and light weight. The body’s basic chassis is constructed of stainless steel for superior durability. The 50D also incorporates a high-performance shutter tested and rated to operate reliably over 100,000 cycles. **86**



3.0" Clear View LCD Monitor

A high-performance LCD monitor provides a large, detailed image and informational display. The brilliant 3.0-inch screen features approximately 920,000 dots/VGA with



enhanced brightness to ensure superior viewing ability even in bright outdoor conditions. The new high-resolution monitor complements the

camera’s new, expanded Live View shooting options, which give you more alternatives to traditional through-the-viewfinder image composition. The Live View Function with Face Detection Live mode, for example, uses contrast AF to detect the human face, assuring proper subject focus even in the most challenging shooting situations. **87**

“If you want a compact lightweight camera with a lot of great features you can’t beat the EOS

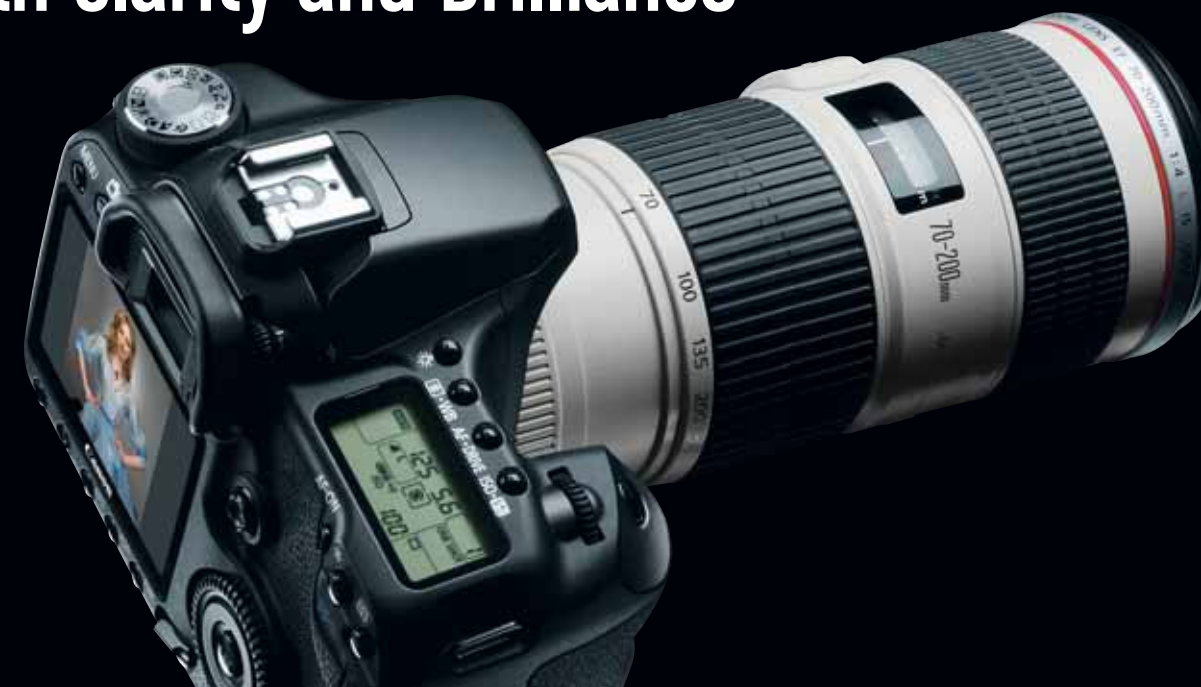


50D. With its ability to render beautiful images at

high ISO, produce smooth color transitions with its 14-bit color and the ability to hold highlight detail with the Highlight Tone Priority, your images will shine! I also love the fast 6.3 frames per second and buffer that never seems to quit. This camera would be a welcome addition in any camera bag! ”

Lewis Kemper
Explorer of Light


Capture the Moment with Clarity and Brilliance



Performance without the Weight Penalty


The EOS 50D proves good things can come in compact, lightweight packages. If what you need is a light, nimble DSLR body with uncompromising performance and outstanding image capture quality, look no further than the 50D. It features top, front, and rear covers made of magnesium alloy, known for its outstanding strength and light weight.

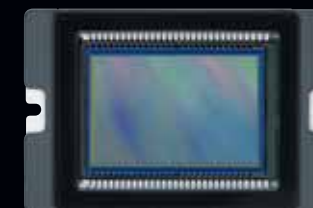
Extraordinary Durability and Solid Dependability

In addition to the magnesium alloy covers, the EOS 50D body features a basic chassis constructed of stainless steel for superior durability. The 50D also incorporates a high-performance shutter tested and rated to operate reliably over 100,000 cycles. Part of the EOS Integrated Cleaning System, the EOS 50D also features a Canon self-cleaning sensor unit, which removes dust using ultrasonic vibrations. 



3.0" Clear View LCD Monitor

The EOS 50D has a brilliant, high-resolution 3.0-inch LCD monitor, featuring approximately 920,000 dots/VGA with enhanced brightness to ensure superior viewing ability even outdoors on a sunny day. The large, high-performance screen provides detailed image and information, displayed with unprecedented clarity and color accuracy. 



15.1 MEGA
PIXELS
CMOS

APS-C Size CMOS Sensor (Actual Size)


Outstanding Image Quality

The new Canon 15.1-megapixel CMOS sensor, the latest DIGIC 4 Image Processor, 14-bit A/D conversion, and other advanced Canon technologies, assure image capture of the highest quality. Your photographs will be characterized by extraordinary detail, rich color, and expanded dynamic range.



Picture Style

Easier Access to Advanced Features

The Picture Style feature enables photographers to select necessary camera settings through pre-programmed presets. It enables you to make optimal choices from among the many camera parameters simply by selecting the type of shooting. The EOS 50D provides six preset settings and three additional custom settings that you can program with your own settings. 



Picture Style – Portrait

"I have never taken any camera out of the box and see it perform so simply and impeccably immediate as the EOS 50D. I always have high expectations for Canon and they never cease to astonish me. It has happened again with this camera. Superb image quality over comparable models and incredible value for the price. In addition, it is lightweight, easy to handle and is quickly becoming my close friend and traveling companion."

Douglas Kirkland
Explorer of Light

Camera: EOS 50D

Lens: EF 24-105mm f/4L IS USM

Actress Melissa George photographed by Douglas Kirkland on August 14, 2008, in Perth, Australia, for the 2009 Linneys jewelry advertising campaign. ©2008 Douglas Kirkland All Rights Reserved

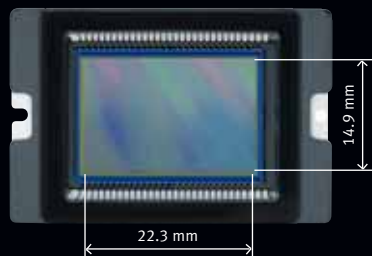
CANON DIGITAL
LEARNING CENTER

Visit the CDLC for further insight
BEYOND THE BROCHURE
www.usa.canon.com/beyondthebrochure

High-End Technology Without Compromise

Canon Innovation: The Hallmark of All EOS DSLR Cameras

New, Improved 15.1-Megapixel CMOS Sensor



EOS 50D APS-C CMOS Sensor (Actual Size)

The EOS 50D CMOS sensor delivers a high imaging resolution of approximately 15.1 effective megapixels. The recording area of the sensor is 22.3 x 14.9mm (APS-C), which results in a lens conversion (crop) factor of approximately 1.6 in relation to the traditional full-frame 35mm film format. A new micro semiconductor manufacturing process has increased the photodiode area and the photoelectric conversion rate, significantly improving noise performance, high ISO shooting capability and overall dynamic range. Light gathering efficiency has been improved through a new fabrication process that eliminates gaps between the microlenses. An enhanced high-speed data acquisition system, which employs four channels per line, ensures faster image capture.

Next-Generation DIGIC 4 Image Processor



Successive generations of Canon DIGIC technology have brought steady improvement in processing speed and image

quality, providing the necessary power to deal with the increased volume of data generated by imaging sensors of ever-increasing pixel dimensions. The DIGIC 4 Image Processor in the EOS 50D incorporates the latest Canon technologies, elevating imaging performance to unprecedented heights. Moreover, the DIGIC 4 Image Processor makes possible, for

the first time, uniquely advanced features, such as Live View Function with Face Detection AF, Auto Lighting Optimizer, Lens Peripheral Illumination Correction, and expanded RAW capture options.

Expanded ISO Range

The advanced design of the new EOS 50D CMOS sensor and DIGIC 4 Image Processor delivers a remarkably wide ISO range of 100–3200 in standard mode, selectable in 1/3-stop increments. In extended range mode, the high end can be boosted to 6400 or 12800. The combined low-noise performance of the sensor and image processor makes the higher ISO settings usable in real-world shooting situations.

New RAW Recording Options

The EOS 50D augments traditional RAW recording by providing three RAW capture modes. The standard RAW mode fully utilizes the sensor providing an 4752 x 3168 pixel (approximately 15.1 megapixels) image. The new sRAW1 and sRAW2 modes capture at 3267 x 2178 (approx. 7.1 megapixels) and 2376 x 1584 (approx. 3.8 megapixels) pixels, respectively. These new RAW recording options greatly enhance shooting flexibility, enabling the photographer to select pixel dimensions appropriate to the assignment and reducing file sizes whenever possible to streamline processing.

Outstanding Low-Noise Performance

Superior image quality is also assured by an improved noise reduction system. A Custom Function can be used to select automatic noise reduction with long exposures. Similarly, a Custom Function enables the photographer to fine-tune the degree to which noise reduction is applied when shooting at high ISO settings. The DIGIC 4 Image Processor has significantly reduced chroma noise in shadow areas. Moreover, all but the strongest noise reduction setting can now be selected without adversely affecting the maximum burst shooting speed in continuous mode.

Rugged Construction

The EOS 50D is a durable, dependable camera. The top, front, and rear covers of the body are made of magnesium alloy, known for its out-

standing strength and lightweight. Furthermore, by integrating the camera grip with the front cover, Canon engineers have achieved excellent body rigidity. The body's basic chassis is constructed of stainless steel for superior durability and long-term mechanical reliability.

Improved EOS Integrated Cleaning System

The Canon EOS Integrated Cleaning System uses ultrasonic vibration to remove dust that settles on the sensor surface. This self-cleaning routine is automatically activated whenever the camera is powered on or off, but can also be manually activated by the user. Moreover, by shooting a plain white subject, the photographer can acquire dust delete data that are transmitted along with the image (whether JPEG or RAW). Canon Digital Photo Professional (DPP) software can then be used to manually or automatically erase the dust spots. The EOS 50D incorporates the latest-generation Integrated Cleaning System, which features an improved ultrasonic vibration system and a new fluorine coating on the low-pass filter that better resists dust adhesion.

Fast Continuous Shooting with Precise Autofocus

Nine AF points make it easier to lock onto subjects, even if they are not centered in the composition. All AF points are of the cross type, with a diagonally mounted cross-type sensor at the center AF point that is sensitive to both vertical and horizontal lines, which enhances available light autofocus performance when using lenses f/2.8 and faster. The EOS 50D autofocus system also incorporates an advanced automatic compensation system that virtually eliminates the focusing errors that can occur with different light sources. In addition, the EOS 50D provides AF microadjustment capability via a Custom Function. Microadjustment can be performed globally (for all lenses) or individually for each lens in a photographer's arsenal. Up to 20 lenses can be programmed for AF microadjustment.

The high-performance shutter assembly, the fast autofocus system, the advanced

CMOS sensor, and the state-of-the-art DIGIC 4 Image Processor combine to make the EOS 50D a highly responsive, fast-handling camera. Despite the increased data handling requirements associated with 15.1-megapixel image capture,



6.3 fps
Continuous
Shooting Speed

the EOS 50D can shoot continuously at 6.3 fps. It can also capture up to 60 consecutive full-resolution JPEG images when a traditional CF card is used, and up to 90 JPEG images when a UDMA CF card is used, or up to 16 RAW images in a single continuous burst with either a CF or UDMA CF card.

Picture Style Presets

The Canon Picture Style feature provides a number of user-friendly presets that eliminate the need to make numerous individual changes to camera settings. They enable the photographer to make optimal choices based simply on the type of shooting. The EOS 50D provides six factory preset styles (Standard, Portrait, Landscape, Neutral, Faithful, and Monochrome) and enables the user to program three additional custom presets. Modifiable parameters include sharpness, contrast, color saturation, color tone, filter effect, and toning effect.

Auto Lighting Optimizer

The Auto Lighting Optimizer automatically adjusts brightness and contrast during image processing. This process can dramatically improve the tonal qualities of an image, especially when shooting conditions cause AE underexposure, flash underexposure, low contrast, or back-lit scene underexposure. It is automatically selected when shooting with the EOS 50D in the Full Auto or Creative Auto mode. In all other shooting modes, the user can select standard, weak, strong or no processing.



Auto Lighting Optimizer
(Backlit Face Detect): Standard

Auto Lighting Optimizer
(Backlit Face Detect): Disable

Lens Peripheral Illumination Correction

This powerful feature automatically corrects for light fall-off at the four corners of an image with many lenses. Since peripheral illumination characteristics vary for each lens, this corrective system relies on a registered database. With JPEG images, the correction is performed in-camera at the time of capture. With RAW images, the correction can be performed post-capture using Canon DPP software. The EOS 50D can store correction data for approximately 20 Canon lenses, and lens data can be added or deleted using the EOS Utility.

Extended Live View Function Capabilities

The Live View Function allows the photographer to compose and shoot using the rear LCD monitor. Live View Function settings can now be accessed via a centralized function screen for easier use. In Live View mode, the camera uses evaluative metering via the image sensor. Most shooting options—such as drive mode, ISO speed, Picture Style, white balance, and AF mode (see below)—can be selected while in Live View mode.

There are three Live View AF modes. In Quick mode, the AF sensor is used for phase-difference detection. One-Shot AF is automatically selected, and the user can select AF point even while the Live View Function image is displayed. When the AF Start button is pressed, the mirror goes down, momentarily interrupting the live display. After autofocus has executed, the mirror flips up, and the Live View Function image is restored. The Live mode uses the image sensor to perform contrast-detection AF. The multicontroller can be used to select the AF point within 63% of the picture area. The Face Detection Live mode uses contrast AF to detect the human face. If multiple faces are detected, the face closer to the center and/or the larger face is automatically selected as the AF point. The photographer can use the multicontroller to select a different face for AF as desired.

3.0" Clear View LCD Monitor

A new, high-performance LCD monitor provides large, detailed image and informational display. The brilliant 3.0-inch Clear View LCD monitor

features approximately 920,000 dots/VGA, providing 100% image area coverage and a wide viewing angle of 160° (both vertically and horizontally). The color gamut is much closer to the sRGB colorspace, ensuring more tonally accurate, natural-looking, viewed images. A new panel coating is more smudge resistant and provides superior anti-reflection and water-repellent properties.

Wireless File Transmitter WFT-E3A

Originally designed for use with the EOS 40D camera, the WFT-E3A is also compatible with the EOS 50D, providing advanced functions and capabilities, such as both wireless (802.11b or g) and wired (100Mbps Ethernet) LAN connectivity. Its powerful transmitter with high-performance internal antenna deliver extended wireless range—up to 492 feet (150m)* from the computer or a network access point. You can connect a compatible third-party GPS device via USB, enabling location information to be added to each image's EXIF data. Or, you can connect a USB v.2.0 hard drive to the transmitter for expanded recording media options. The WFT-E3A integrates perfectly with the EOS 50D body and provides a second set of the most often used camera controls for vertical shooting.

Comprehensive System Accessories

In addition to the impressive selection of Canon EF lenses and Speedlite flashes, the EOS 50D is fully compatible with all of the accessories available for the EOS 40D. These include the BG-E2N battery grip and the many power supply options, including power adapters and couplers. Also available for the EOS 50D are dedicated data interface cables, dioptic adjustment lenses, EF-Series focusing screens, and the OSK-E3 Original Data Security Kit.

* With no obstructions between the transmitting and receiving antennas, and no radio interference. With a large, high-performance antenna attached to the wireless LAN access point.

EOS 40D

The Featured Professional



Bob Davis

Explorer of Light

The Tools that Support the Passion

Bob Davis's passion for visual storytelling has taken him around the globe, pursuing photojournalistic opportunities that cross cultural barriers. He spent 14 years as an award-winning photographer at the *Chicago Sun-Times* and, today, he is Chief Photographer for Bella Pictures, the first national wedding photography company. The Canon EOS gives him the tools he needs to cover weddings with the same energy, enthusiasm, and professionalism that he brought to his award-winning photojournalism career.

Dedicated to All Artistic Photographers

The Canon 10.1-megapixel EOS 40D combines Canon's tremendous know-how in both the digital and photographic worlds, into a camera that does everything one would expect of a traditional digital SLR, while incorporating staggering leaps forward in technological innovation. With high-end Digital SLR performance in a compact, light body, it's the perfect backup/grab-and-shoot camera for the professional.



Camera: EOS 40D
Lens: EF 70-200mm f/2.8L IS USM
©2008 Bob Davis All Rights Reserved

DSLR Performance Distilled



WEDDING
EOS 40D



APS-C Size CMOS Sensor (Actual Size)

Superb Image Quality

The EOS 40D comprises a formidable combination of Canon technologies that deliver both fast operating speed and superb image quality. The APS-C size 10.1-megapixel Canon CMOS sensor uses advanced design and manufacturing processes to ensure noise-free, high-resolution image capture with an expanded usable ISO range. 14-bit A/D converters provide extended precision for superior tonal accuracy.



The DIGIC III Image Processor assures fast and powerful levels of performance. Also included is the Highlight Tone Priority mode, which expands the available range of capture in the highlights without compromising shadow detail or camera performance.

Live View Function with Wireless Capability

When the Live View Function is enabled, the huge 3.0-inch LCD monitor becomes the viewfinder. Any portion of the image can be magnified by 5x or 10x to aid in precise manual focusing. A feature on the EOS 40D is the ability to instantly access autofocus during Live View Function, with one press of the AF Start button; Live View Function clears to enable AF, then returns as soon as the button is released. You can view with a grid overlay, perfect for keeping your subjects straight in your compositions. There are

also two silent shooting options. Live View Function images can also be displayed on a TV or computer monitor. With Canon EOS Utility software installed on your computer, you can check focus and composition in real time... even manually focus and fire the camera remotely from the computer. Connection between the camera and computer can be via USB cable or wireless LAN (with the optional Wireless File Transmitter WFT-E3A).

High-Precision AF

The EOS 40D incorporates a 9-point area AF system that uses cross-type points with lenses f/5.6 or faster, providing more reliable focusing under difficult lighting conditions. Each of the 9 AF points uses this cross-type coverage. In addition, the EOS 40D incorporates a diagonally mounted cross-type sensor at the center AF point that is sensitive to both vertical and horizontal lines, further improving focusing sensitivity and precision with wide-aperture lenses (f/2.8 or faster).

Outstanding Performance

With a maximum continuous shooting speed of 6.5 fps, the EOS 40D is a fast, responsive DSLR. It can capture up to 75 consecutive full-resolution JPEG images or up to 17 RAW images in a single continuous burst.

“The EOS 40D has been an amazing tool for me to tell people’s stories without having to worry about the exposure, the color balance and the technology that’s behind the camera.”



Bob Davis
Explorer of Light

CANON DIGITAL
LEARNING CENTER

Visit the CDLC for further insight
BEYOND THE BROCHURE
www.usa.canon.com/beyondthebrochure

No More Missed Opportunities



PowerShot G10

When you're presented with that once-in-a-lifetime shot, the best camera in the world, arguably, is the camera you have in your hands. The Canon PowerShot G10 is a compact digital camera that delivers professional-grade performance and features. Its 14.7-megapixel imaging sensor delivers exceptional picture quality. The latest Canon DIGIC 4 Image Processor further assures refined camera performance and makes possible advanced features that enhance shooting capabilities and capture reliability. Its super-sharp 5x (optical) zoom lens gives professionals the much-demanded 28mm (35mm film format equivalent) wide angle capability and, furthermore, aids handheld shooting with proven Canon Optical Image Stabilizer technology. With a large 3.0-inch LCD monitor and a full range of shooting options (including RAW+JPEG recording), the PowerShot G10 is the compact camera no professional should be without.



State-of-the-Art DIGIC 4 Image Processor

The G10 incorporates the newly developed Canon DIGIC 4 Image Processor. DIGIC processors are renowned for their advanced design that ensures superb image quality, improved camera responsiveness and usability, expanded shooting capabilities, and reduced power consumption. The DIGIC 4 takes the performance of the G10 to the next level, not only delivering extraordinary picture quality but also enabling sophisticated features, such as Face Detection Servo AF, self-timer shooting with Face Detection, and Intelligent Contrast.

5x Zoom Wide Angle Lens

PowerShot cameras deliver the unrivaled excellence of Canon optics, and the 5x (optical) zoom lens of the G10 covers an ideal range with exceptional optical performance. The 28mm* full wide-angle lens enables easier coverage with group portraits and more expansive scenics. The 140mm* telephoto lens provides closer portrait-shooting capabilities as well as the ability to zoom in on the action. Moreover, the G10 lens incorporates Canon Optical Image Stabilizer technology, which effectively reduces the effects of camera shake when handholding.



High-Resolution Capture with RAW Mode

RAW The 14.7-megapixel imaging sensor captures photographic detail with quality and resolution unheard of among compact digital cameras. The G10 also provides RAW capture capability for photographers who wish to exercise the highest degree of image rendering control via various post-processing options, including Canon DPP (Digital Photo Professional) software. A RAW+JPEG shooting mode is also provided for maximum capture flexibility.

High-ISO Shooting with Auto Option

The sensor also features excellent sensitivity, providing high-ISO shooting capability at speeds of up to 1600. Combined with the Optical Image Stabilizer, this extended ISO range enables available light shooting in more situations. A High ISO Auto setting uses advanced motion detection technology to automatically change the ISO (and shutter speed) setting according to subject movement.

Face Detection Technology



The G10 incorporates the latest Canon Face Detection technology, which aids the AF system by detecting human faces in a scene. Face Detection is also used to evaluate the brightness and color of faces in the scene in order to arrive at optimal exposure and white balance settings. For flash photography, Face Detection not only controls the flash output for proper exposure balance but also performs automatic red-eye detection and correction as required. A new Face Detection Self-Timer feature can be used to release the shutter automatically upon the appearance of an additionally detected face in the scene.

*Equivalent focal length in the full-frame 35mm film format



©2008 VII Gary Knight
All Rights Reserved

Superior Exposure Control

You can select one of three metering modes: evaluative, center-weighted average, or spot. In spot metering mode, you can link the light measurement to the AF point, which can be moved around within the frame. The G10 also features a new Intelligent Contrast Correction that uses advanced algorithms for highly optimized automatic control of exposure and other image quality parameters.

Enhanced Video Capture

You can shoot high-quality video with the G10 in the MOV format which enables you to record better-quality video footage while using up less memory card capacity. You have full access to zoom, exposure compensation, AE lock and AF lock functions while shooting video. Moreover, the face detection AF mode keeps subjects in focus as they move about in the scene.

Easier Operation

As with all PowerShot cameras, the G10 features a mode dial that accommodates a wide range of shooting situations with intelligent presets designed to provide optimum results. Various functions are easily adjusted using the main Control

Dial, and a dedicated ISO Dial makes it possible to quickly change the ISO setting as the situation dictates. The G10 also features a new dedicated Exposure Compensation Dial for quick adjustments to the exposure setting.



Large 3.0-inch PureColor LCD II

Whether composing images or playing them back, whether shooting stills or video, the G10 offers an exceptionally clear, detailed view via its 3.0-inch PureColor LCD II monitor. It features superior resolution with approximately 461,000 pixels, and maintains image quality and brightness over a wide viewing angle.

Professional Tools for HD Video Capture

Canon High Definition HDV camcorders reflect decades of Canon leadership and know-how in the design and manufacture of cameras and lenses for professional video and still photography. You get not only outstanding HD image quality, but also the operability, flexibility, reliability, and connectivity that professionals demand of their gear. Canon HD camcorders deliver the technologies, performance, and features that make them serious tools for the capture of creative HD content. Put them to work. They'll help you get the job done with efficiency, excellence, and expression.



HD Video Lens

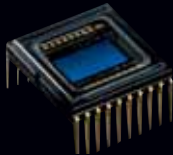
Genuine Canon Zoom Lens

HD image quality starts with optics, and Canon professional HDV camcorders deliver the many benefits of Canon's world-renowned lens technologies. Genuine Canon Professional L-series camcorder lenses incorporate Fluorite and Ultra-Low-Dispersion elements, ensuring outstanding resolution, contrast, and color reproduction, and delivering a level of image quality throughout the entire zoom range unmatched by conventional optics. The standard 20x zoom covers an exceptionally wide and useful range of focal lengths, assuring unmatched versatility for a wide range of shooting applications.



Native 16:9, 3CCD Performance

A sophisticated 3CCD design employs separate native 16:9 sensors for each primary color. The high pixel count—approximately 1.67 million pixels (1440 x 1080) per sensor—ensures detailed HD capture (equal to about 800 TV lines of horizontal resolution). Color is rendered with exceptional accuracy with wide dynamic range and virtually no color noise.



DIGIC DV II HD Image Processor

Engineered and manufactured exclusively by Canon, specifically for HD, the latest-generation DIGIC DV II HD Image Processor uses proprietary algorithms and architectures to deliver optimal image quality at the highest operating speeds.

The DIGIC DV II HD processor is optimized for HD video, operating at 1440 x 1080 pixels with 4:2:2 color sampling. A new hybrid noise reduction system uses dual processes to improve image clarity in monotone and shadow areas. Color reproduction is remarkably natural, especially in skin tone areas and with dark and light scenes. A hybrid noise reduction system employs dual processes to ensure brilliantly clear HD images.



SuperRange Optical Image Stabilization

Canon Optical Image Stabilizer uses a gyro sensor to detect camera movement and activate a Vari-Angle Prism to continuously compensate for shake and jitter. The 20x HD video zoom lens on Canon HDV camcorders incorporate the latest Canon SuperRange Optical Image Stabilizer technology, which further improves low-frequency vibration control by using two detection methods (gyro and vector). The image at the CCD sensor is analyzed, providing additional feedback to the prism for even greater compensation precision. The result is highly reliable camera shake correction, even at long focal lengths.

Canon Interchangeable XL Lens Mount

The XL H1S and XL H1A camcorders feature the XL mount system that offers the added range and flexibility of interchangeable lenses. For example, the optional Canon HD Video Lens 6x XL has a 3.4 to 20.4mm wide-angle zoom range, which gives you an extensive range of focal lengths from 24.5 to 147mm (in equivalent 35mm full-frame film format terms). The XL mount system supports the HDV standard, ensuring communication compatibility and full HDV functionality with the XL H1 cameras.



Extender XL 1.6x EF Adapter XL

Professional Interface Capabilities

The XL H1S and XH G1 camcorders were designed to meet interface requirements in a variety of professional shooting and production environments. HD-SDI (SMPTE 299M) or SD-SDI (SMPTE 272M) output with 4:2:2 color sampling and embedded audio and time code greatly reduces



cabling complexity. A Genlock input enables multi-camera synchronization in live-switched

environments. A switchable SMPTE input/output port accommodates time code requirements on the XH G1, while separate input and output terminals are available on the XL H1S.

High-Speed Zoom Mode and Manual Iris Ring

A High-Speed Zoom Mode provides superb response, enabling zoom speed control by varying the angle of rotation of the zoom ring. The Manual Iris Ring enables fine, smooth adjustment in 1/8th-stop increments. The combination of the focus, zoom, and iris rings on the lens creates the same "feel" as on manual broadcast lenses—a design preferred by professional users.

Unique Customization Features

The unmatched customization capability built into Canon HDV camcorders make them exceptionally versatile and flexible. The customization features enable them to be precision-tailored for different environments, different users, and different jobs. Numerous image adjustment, display option, and custom function settings define the camera's performance and operating characteristics. Groups of these settings can be saved and exported to other Canon HDV camcorders using an SD memory card or Canon Console software. Organizations that use many cameras can take advantage of this feature to easily set up multiple units for uniform capture characteristics.

Canon Console Software

Canon Console is an advanced software package developed to address the creative needs of Canon HDV camcorder users. Incorporating many of the traditional aspects of a camera control unit, Console runs on a laptop or desktop computer and provides tools for creative expression as



well as remote access to basic camera settings and operations. Functions, such as a vectorscope and waveform monitor, enable critical evaluation of the camera signal. Users can also capture the camera's video output directly to a computer's hard drive.



Vector and Waveform Monitors

High Definition HDV XL H1S/XL H1A

These camcorders combine industry-standard connections and terminals along with a wide range of image control settings and options plus the advanced Genuine Canon 20x HD L-series Video Zoom Lens III. It also features an interchangeable lens mount compatible with 6 video lenses and Canon EF lenses. Both HD camcorders have added an even higher level of customization options and capabilities for demanding professionals.



High Definition HDV XH G1/XH A1

These professional camcorders feature Genuine Canon 20x HD L-series Video Zoom Lenses, SuperRange Optical Image Stabilizers and DIGIC DV II HD Image processors to create outstanding 1080 HD resolution images with operability, flexibility and reliability.



Great Images Start with Great Lenses

For many professional photographers, Canon EF series lenses alone are reason enough to choose the EOS System. A unique blend of the world's most advanced optics, microelectronics, and precision manufacturing technologies such as a new SWC (Subwavelength Structure Coating) lens coating for better light transmission and reduced flare, EF lenses are perfected in Canon's laboratories and proven in the field. Whatever, whenever, and wherever you shoot, you can count on Canon EF lenses to deliver the finest imaging performance.



Camera: EOS-1D Mark III
Lens: EF 70-200mm f/2.8L IS USM
©2008 Arthur Morris All Rights Reserved



Optical Image Stabilizer

Canon's Optical Image Stabilizer technology makes handheld photography possible in more low-light situations than ever before. When camera shake occurs using normal lenses without Optical Image Stabilizer technology, the image projected on the image sensor also shakes, often resulting in blurred images at slower shutter speeds. With Canon Image Stabilized lenses, a special group of lens elements automatically shifts position, compensating for the movement and stabilizing the image. This compensatory effect adds the equivalent of up to 4-stops (depending upon the lens), expanding a photographer's handheld options dramatically.

With Optical IS in the lens, Canon can equip each IS lens with the stabilizer it needs for effective shake correction. Other systems are limited by how far they can move an image sensor, and as a result, their stabilization is less effective as telephoto lengths get longer. Also, Optical IS can be seen right in the viewfinder—impossible with some other stabilizer systems.

L-Series Lenses

Most highly regarded among professional photographers, Canon L-Series lenses are distinguished by a bold red ring around the outer barrel. What makes them truly distinctive, however, is their remarkable optical performance—the result of sophisticated Canon technologies such as Ultra-low Dispersion UD glass, Fluorite and aspherical elements, and Super Spectra Coating.



Diffraction Optics

Innovative Canon diffractive optics (DO) technology results in high-performance lenses that are more compact than traditional refractive designs. Conventional glass lens elements disperse incoming light, causing chromatic aberration. The unique Canon multilayer diffractive elements are constructed by bonding diffraction gratings to the surfaces of two or more lens elements. These elements are then combined to form a single multilayer DO element. The DO element's dispersion characteristics are designed to cancel chromatic aberrations at various wavelengths when combined with conventional glass optics. This results in outstanding reductions in "color fringing"—chromatic aberration—rivaling that of L-series telephoto lenses. Canon DO technology is ideal for telephoto lens optics and makes possible significant size reduction while maintaining superb optical performance.



Ultrasonic Motor

Canon developed the world's first lens-based Ultrasonic Motor (USM) to power the lens autofocus mechanism. Instead of large noisy drive trains powered by conventional motors, Canon USM lenses drive the lens using the fine electronic vibrations created by piezoelectric ceramic elements. The focusing action of the lens is fast and quiet, with virtually instantaneous stops and starts. USM lenses also draw minimal power from the camera, ensuring longer battery life. Canon makes two types of Ultrasonic Motor lenses. Ring-type USM lenses, found in large aperture and super-telephoto designs, permit manual focusing without first switching out of the auto mode. Micro USM designs bring the performance benefits of Canon USM technology to a wide assortment of affordable EF lenses.



Specialty Lenses

Super Telephoto Lenses—Distinguished by their white color and seen at major sporting events around the world, the powerful EF super-telephotos are ideal for getting up close detail from afar. The latest additions to the EF Lenses line-up, the **EF 800mm f/5.6L IS USM** and **EF 200mm f/2L IS USM** feature dust and water resistance, Optical Image Stabilizer technology for up to 4-stops of shake correction and magnesium-alloy components for

further weight reductions while retaining its strength and durability. They both feature fluorite and UD lens elements reducing chromatic aberration for outstanding optical performance. They are also compatible with Extender EF 1.4x II and Extender EF 2x II, for additional power and versatility.

Fisheye—Perfect for super wide-angle and special-effect photography, Canon's full-frame fisheye can focus as close as 8 inches (0.2m), and delivers exceptionally sharp images throughout its focus range. Up to three gel filters can be inserted into its built-in rear filter holder.

Macro—The EOS lens lineup has a number of options for true close-up and macro photography. With five macro lenses for precision, and three screw-on close-up lenses for convenience—in addition to Life-Size Converter EF and two Extension Tubes—Canon EF macro lenses and close-up accessories can uncover detail that is impossible for the unaided human eye to detect.

TS-E—Canon's Tilt/Shift lenses bring many of the advantages of technical view cameras to the EOS System. Tilt movements alter the angle of the plane of focus between the lens and film plane, allowing precise control of depth-of-field even at large apertures. Shift movements slide the lens's optical axis along the film/sensor plane, enabling photographers to correct or alter perspective at almost any angle.

EF-S Lenses—Designed for Canon EOS Digital cameras with APS-C sized sensors (with a 1.6x conversion factor), Canon EF-S lenses take advantage of the sensor's smaller size to deliver optimized performance in compact, lightweight designs.



Smarter Flash Photography

Integral to the EOS System, Canon Speedlites are the ideal flash light source for EOS SLR cameras. They are technologically advanced to provide perfect exposure and illumination with just about any subject. They are also highly adaptable, providing an endless variety of configurations and versatile shooting options. For professional flash photography, rely on Canon Speedlites to solve the most demanding lighting challenges.



©2008 Bruce Dorn
All Rights Reserved

E-TTL II additionally incorporates distance information from compatible EF lenses for the most precise flash exposure control. For example, it ignores sensor areas that report abnormally high levels, eliminating underexposure that can otherwise be caused by straight reflections. Correct flash exposure is ensured even when shooting a subject with a highly reflective object in the background, or if the subject itself is highly reflective. In addition, because distance information is used in calculating the flash output level, E-TTL II prevents over-exposure when photographers lock focus and recompose.

Wireless AutoFlash Control

Multiple Speedlites can obtain lighting effects not possible with a single flash. While previous multiple-flash setups required cumbersome wires to connect the camera and flashes, compatible EOS Speedlites can be used as wireless slaves. With a Speedlite 580EX II or Speedlite Transmitter ST-E2 attached to an EOS Digital SLR, an unlimited number of compatible EX-series Speedlites can operate as dedicated slave units. With nothing more than an EOS camera and a number of Speedlite flashes, the opportunities for creative lighting are endless.



Macro Photography and Wireless Options

The Canon Speedlite flash system family includes versatile solutions for macro photography requirements: The **Macro Ring Lite MR-14EX** features twin circular flash tubes that can be fired at equal or uneven power with a ratio that can be varied over a six-stop range. One or more compatible EX-series Speedlites can be used as wireless slaves along with the MR-14EX. Incandescent focusing lamps and two types of modeling flash are provided to enable preview of lighting effects. The controller unit features an illuminated full-information LCD panel and accepts optional hi-capacity battery packs.

The **Macro Twin Lite MT-24EX** gives serious close-up, nature, and macro enthusiasts a different, directional option in macro lighting. The two separate flash heads can be swiveled around the lens and aimed independently. They can even be removed from their holder and mounted off-camera. Flash head output can also be independently adjusted with easy ratio control over a six-stop range. Like the MR-14EX, the Macro Twin Lite MT-24EX is fully E-TTL compatible with all EOS SLR bodies. Wireless E-TTL flash control is possible with one or more 580EX II, 580EX, 550EX, 430EX II, 430EX, or 420EX Speedlites configured as slave units.

The **Speedlite Transmitter ST-E2** is a dedicated controller that can be used with an unlimited number of compatible Speedlite slave flashes. The transmitter is effective over distances up to 33 ft. outdoors and 49.5 ft. indoors.

Speedlite 580EX II

- Durable, weather-resistant construction with extensive rubber gaskets and seals.
- Metal flash “foot” with moving rubber cover for weather-resistance.
- New external flash sensor for non-TTL auto flash.
- PC socket for expanded off-camera versatility.
- Recycling is about 20% faster than the original 580EX, and quieter.
- Same powerful Guide Number (max. 190-feet) and 24mm wide coverage (with 14mm wide panel) as the previous 580EX.
- New accessory Off-Camera Shoe Cord OC-E3 and Compact Battery Pack CP-E4 form a weather-resistant system when combined with EOS-1Ds or 1D Mark III.
- Full compatibility with all EOS SLR cameras, and certain PowerShot models.



Speedlite 430EX II

- Superior build quality, including a metal foot for added strength
- Approx. 20% faster recycling time, compared to the previous 430EX.
- One-touch, quick-lock mechanism for easy attaching/detaching flash from camera.
- Full flash control possible on camera menu, with compatible EOS Digital SLR cameras.
- Virtually silent flash recycle.
- Zoom flash head covers range of 24-105mm; maximum guide number 141 ft./43m at ISO 100



Speedlite Transmitter ST-E2

- Dedicated transmitter to control unlimited number of slave flashes.
- Speedlites 580EX II, 580EX, 550EX, 430EX II, 430EX, and 420EX can be controlled.
- Controls slave units up to 33 ft. outdoors and 49.5 ft. indoors.
- Ideal compact alternative for wireless E-TTL.



Macro Twin Lite MT-24EX

- Attaches to all Canon EF macro lenses (EF 180mm f/3.5L requires Macro Lite Adapter 72C).
- Ideal for close-up lighting with a directional “look.”
- Heads can be swiveled or bounced and can be removed from mounting ring for added control.
- Powerful Guide Number of 78 (feet, at ISO 100), full E-TTL control and E-TTL features including FEL, Hi-speed sync, and Flash Exposure Bracketing.
- Incandescent focusing lamps, and two different types of 1-second modeling flash allow easy focusing and previewing of lighting effects.



Macro Ring Lite MR-14EX

- Twin-tube ring lite designed for close-up photography with EF Macro lenses; Flash tubes can fire together or independently.
- Compatible with all EOS bodies.
- Supports E-TTL Wireless Autoflash in conjunction with one or more Compatible off-camera Slave Units.
- Incandescent focusing lamps and two forms of modeling flash permit preview of lighting effects.
- Illuminated LCD panel for easy flash settings in any lighting condition.



Canon Solutions for Big, Bold, Spectacular Prints



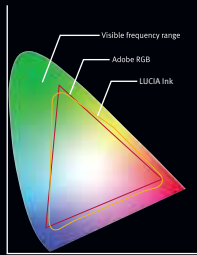
imagePROGRAF

Photographers seeking to produce their own gallery-grade inkjet prints have had limited choices... until now. Understanding the demands of professional photographers—especially those that shoot with the EOS System—Canon has responded with the imagePROGRAF series printers, featuring impressive new technologies that bring unprecedented quality and performance to wide-format photo printing.

LUCIA 12-Color Ink Set

The 12-color Canon LUCIA ink set delivers a substantially wider color gamut than competitive printers. The far greater range of available colors produces richer, more vibrant prints with significantly reduced metamerism (the perceived shift of color balance when viewing prints under different lighting conditions). The ink set includes three levels of gray—Black or Matte Black, Gray, and Photo Gray—to deliver black-and-white photo prints of exceptional tonal detail. The inks are pigment-based, ensuring long-lasting prints with excellent archival characteristics. imagePROGRAF printers ship with a starter set of all 12 inks.

 LUCIA
ink



Canon LUCIA Ink set vs.
Adobe RGB
Canon RC Photogloss L-50

Photo-Lithographic User-Replaceable Dual Print Heads

An advanced head design uses two print heads—each with 15,360 nozzles—yielding over 30,000 nozzles. This not only makes possible extremely high output resolution but also ensures faster, more reliable printing. Photographers no longer need to choose between print speed and image quality because Canon print head technology delivers both. The large number of nozzles also substantially increases print head life so the printer requires less frequent maintenance. Because the print heads are user-replaceable, maintenance can be performed with minimal downtime and no costly service calls.



Unsurpassed Output Media Selection

Canon imagePROGRAF printers include support for a wide range of papers and specialty output media, such as RC photo papers, transparent film, and fine art papers. Superior carriage design enables the printer to handle a wide range of media thicknesses and finishes. Moreover, the Media Configuration Tool supplied with the printer enables users to update the software, using a periodically published database, accommodating new Canon and other popular media as they become available.



16-Bit Printing Support

While conventional inkjet printers are 8-bit-per-channel devices, requiring a conversion from 16-bits somewhere along the workflow, the imagePROGRAF printers provide advanced direct output support for 16-bit files. A supplied plug-in enables printing of 16-bit RAW images directly from Digital Photo Professional software. Also included is an export module for direct printing of 16-bit files from Adobe® Photoshop®. These features provide the photographer with the first true wide-dynamic-range workflow option from capture to output. Images are reproduced with smoother tonal gradations for greater photorealism. Dynamic-range-related problems, such as posterization and banding, are virtually eliminated.



Digital Photo Professional

Automated Black Ink Cartridge Switching

The ink set includes Black and Matte Black, only one of which will be used depending on output media selection. While other printers require the user to perform an inconvenient and wasteful manual operation to flush unused ink and switch cartridges, the imagePROGRAF printers automate the process. With both Black ink cartridges loaded at all times, the switchover is fast and wasteless, performed with a simple push of a button.

imagePROGRAF iPF9100

Large format Printer for Professional and Commercial Materials.

The iPF9100 is a 60-inch wide graphic art model incorporating LUCIA 12-color pigment ink. It is committed to the productivity and efficiency required in business applications such as professional labs while maintaining high quality large prints. The large operation LCD panel makes workflow significantly easier to see and to operate from entering print data to producing output. The other outstanding features: a built-in 80GB hard disk drive to buffer and store print jobs, and ink supply is via a tubing system with a sub-ink tank to help seamless ink tank replacement. A sub-ink tank is provided as an ink storage buffer tank, ensuring stable ink supply.



imagePROGRAF iPF8100

Two Black and Two Gray Inks Create Richer Blacks.

Capable of prints up to 44-inch wide, the iPF8100 uses Canon's 12-color LUCIA pigment ink system, extending the color gamut far beyond what can be seen on a screen. Black or Matte Black, plus two gray inks create black and white photographs that are nothing short of inspiring. Canon's FINE (Full-photolithography Inkjet Nozzle Engineering) print heads ensure that ink is delivered to the paper with speed, generous coverage, and unprecedented accuracy. With a built-in 80GB hard disk drive, the iPF8100 exceeds lab-quality printing, right in the studio.



imagePROGRAF iPF6200 / iPF6100

A Better Large-Format Printing Solution.

The imagePROGRAF iPF6200/iPF6100 accommodates 24-inch wide media and features the LUCIA ink system, further enhancing the wide color gamut, smooth gradations, and great speed for which imagePROGRAF printers are renowned. The LUCIA pigment-based inks provide improved scratch resistance for even better print longevity. Reformulated Gray and Photo Gray inks plus new processing optimization ensure superior tonal gradation with less visible grain and reduced bronzing. The iPF6200 has a built-in 80GB hard disk drive to buffer printer data.



imagePROGRAF iPF5100

The Next-Generation Professional Photo Printer.

Understanding the demands of professional photographers—especially those that shoot with the EOS System—Canon has responded with the imagePROGRAF iPF5100, featuring impressive new technologies that bring unprecedented quality and performance to 17-inch wide photo printing. The LUCIA 12-color ink set delivers a substantially wider color gamut than competitive printers. Three levels of Gray—Black or Matte Black, Gray, and Photo Gray—deliver black-and-white photo prints of exceptional richness and tonal detail. The improved pigment-based ink formulations provide superior print longevity with reduced graininess and bronzing.



Fast, Spectacular, Affordable Desktop Photo Printing



Combining unparalleled Canon expertise in photography, photocopying, and printing technologies, PIXMA Pro photo printers are redefining output quality, performance, and convenience. Employing extraordinary ink set and printhead technologies, sophisticated drivers with advanced color controls, professional software support, and compatibility with a broad selection of papers and specialty media, Canon PIXMA Pro photo printers are meeting, and even surpassing, the expectations of the most demanding professional photographers.

FINE Print Head Technology

Canon's high-precision FINE (Full-photolithography Inkjet Nozzle Engineering) print heads each have thousands of nozzles designed to release microscopic ink droplets as small as 1-picoliter in a single pass, resulting in fast, high-resolution printing. Capable of plotting thousands of ink droplets each second, the high-density nozzle pitch produces sharper detail and less grain. Canon's print heads are engineered using a photo-lithographic process that produces incredibly high-precision output and equally incredible prints.



10-Color Pigment Ink System

Featuring the same LUCIA pigment ink found in the imagePROGRAF printers, the PIXMA Pro9500's 10-color pigment ink set produces professional-quality, archival prints. The Gray, Black and Matte Black ink produce monochrome photographs of unrivaled quality on fine art or glossy paper. Gray ink reduces grain, banding and metamerism and virtually eliminates color shifts. Unlike Photo Black ink that increases contrast, Matte Black ink increases black density on fine art paper while maintaining detail in shadows. With 10 individual ink tanks, users can replace a single color which reduces waste and saves money.



ChromaLife100 Ink System

The PIXMA Pro9000 features the highly refined dye-based Canon ChromaLife100 ink system, which uses Red and Green inks in addition to Cyan, Magenta, Yellow, Photo Cyan, Photo Magenta, and Photo Black. This advanced 8-color system reproduces a much wider color gamut than conventional inkjet printers, delivering a color range that rivals color slide film. The dye-based ink set further ensures vividly brilliant colors and a high-luster surface finish that enhances the beauty of printed images.



Long-Lasting Photos

Canon ChromaLife100 ink technology also delivers prints that withstand the test of time. PIXMA Pro prints will resist fading for up to 100 years when kept in albums. Combined with genuine Canon photo media, prints typically exhibit 30-year light fastness and 10-year gas fastness.*

*Based on accelerated dark storage testing by Canon under controlled temperature, humidity and gas conditions, simulating storage in an album with plastic sleeves. Canon cannot guarantee the longevity of the print; results may vary depending on printed image, drying time, display/storage conditions and environmental factors. See www.usa.canon.com/ChromaLife100 for additional details.

Advanced Camera Direct Printing

Photographers who shoot with Canon EOS Digital SLR cameras can take advantage of extraordinary capabilities when sending images directly to PIXMA Pro printers (via USB 2.0 Hi-Speed interface). For example, direct support for Canon Picture Style technology enables advanced print output control, either faithfully preserving original intent or dialing in specific image enhancements. Special output options, including useful layouts, can be selected on the camera—no need for a computer.

Enhanced PictBridge Functions

PictBridge compatible digital cameras and printers make it easy to print pictures on the spot without a personal computer.



EXIF Data Single Image Print

35-Image Contact Sheet

The Canon EOS System takes PictBridge direct printing to the next level, providing an unprecedented amount of control over image optimization and output options. When you connect the latest-generation Canon EOS Digital SLR cameras to compatible Canon photo printers, such as PIXMA Pro printers, you can, for example, choose automatic image adjustment using EXIF information or make adjustments manually to create more vivid prints. You'll have more paper size and formatting options, such as index sheets with shooting information. You can even correct automatically for back-lighting and remove red-eye from your flash shots.

PIXMA Pro9500

LUCIA 10-Color Pigment Ink Set Creates Rich Color Photos.

For the highest quality color and black-and-white photographs, up to 13" x 19", look no further than the PIXMA Pro9500. With the LUCIA 10-color pigment ink system, there's no other printer that can print both stunning color and smooth black-and-white photographs like the Pro9500. The inclusion of Gray, Matte and Photo Black pigment tanks, combined with 3 pl droplets ensure the smoothest gradations possible and the results are prints that will astound.



PIXMA Pro9000

Professional Quality Photos for Big Ideas.

Capable of quickly printing lab-quality prints up to 13" x 19", Canon's PIXMA Pro9000 raises the bar thanks to its combination of speed and versatility. Its FINE print head generates a maximum resolution of 4800 x 2400 dpi and ChromaLife100 dye-based inks create long lasting, beautiful photos. Canon's Easy-PhotoPrint Pro software, including Photoshop and Digital Photo Professional (V.2.1 and higher) plug-ins, combine with a new printer driver for advanced color control, ensuring accurate prints from the start.



The Power of Wireless Connectivity



EOS-1D Mark III with Wireless File Transmitter WFT-E2A

Wireless File Transmitter WFT-E2A

Canon's all Wireless File Transmitter WFT-E2A, made for the EOS-1Ds Mark III and the EOS-1D Mark III, is a vast improvement over our previous Wireless Transmitter WFT-E1A. It sports many new features that the professional photographer will find indispensable while retaining an Ethernet (hard wired) connection and 802.11 b and g. Utilizing the onboard connection wizard, the WFT-E2A can connect in three ways: In HTTP mode, up to three users can securely log in to the camera to browse and

download selected images with a standard web browser. PTP connectivity allows the user to easily connect a single camera to a computer with advanced remote-control capabilities. Of course we still offer FTP transfer, with a simplified connection interface, for secure transmission to a computer on your network or over the internet. USB 2.0 Hi-Speed host capability allows GPS data from many popular receivers to be embedded in EXIF data as well as allowing the photographer to shoot directly or

back up image data to many commercially available external USB hard drives. The WFT-E2A allows full access to the camera's external sockets while maintaining the weather resistance and durability of the camera body and offering faster communication between the camera and the transmitter. It has a small built-in antenna capable of wireless communication at distances up to 492 feet (150m).* It is powered by the camera's battery, reducing the extra equipment the photographer needs to carry.

Wireless File Transmitter WFT-E4A

The WFT-E4A gives the EOS 5D Mark II body added handling versatility while providing wireless file transfer and networking functionality. Attached to the camera, the WFT-E4A serves as a vertical grip, duplicating basic camera controls for easier vertical shooting. It provides wired or wireless network connectivity, and its USB port can be connected to an external storage device or compatible GPS receiver, multiplying the camera's recording media options. The unit is powered by a single LP-E6 lithium-ion battery, the power from which is not used to augment the camera's own power supply in any way.

Wireless File Transmitter WFT-E3A

Originally designed for use with the EOS 40D camera, the WFT-E3A is also compatible with the EOS 50D, providing advanced functions and capabilities, such as both wireless (802.11b or g) and wired (100Mbps Ethernet) LAN connectivity. Its powerful transmitter design with high-performance internal antenna delivers extended wireless range—up to 492 feet (150m) from the computer or a network access point. You can connect a compatible third-party GPS device via USB, allowing location information to be added to each image's EXIF data. Or, you can connect a compatible USB v.2.0 hard drive to the transmitter for expanded recording media options. The WFT-E3A transmitter's ideal shape—similar to a battery grip—integrates perfectly with the EOS 50D and provides a second set of the most often used camera controls for vertical shooting. (The controls remain functional even when there is no battery in the transmitter.) FTP, PTP, and HTTP communications protocols are supported so that files can be transferred using a number of methods.



©2008 Peter Read Miller
All Rights Reserved

Wedding Photography



Wedding photographers can have one less thing to worry about with a Canon Wireless Transmitter attached to their camera. Free to roam about the ceremony and reception, photographers can feel confident knowing their images are being transferred to their computer as they shoot. They won't run out of memory cards or lose important

shots while offsite downloading images to the computer. They can shoot either vertically or horizontally, transferring their images without worry of getting tangled up in wires. Results can be shared and orders can be taken on the spot, from clients and guests; showing photographs in print or on screen.

Commercial Studio Photography



Studio photographers can transfer images automatically, either immediately or after the shooting session. In immediate mode, the art director, client, and assistants can be working, even off-site, giving feedback during the session for greater spontaneity and efficiency. In operation, images transfer to the computer via

wireless or wired LAN. Wirelessly, Canon's transmitters allow a generous distance range from camera to computer. In wired mode, a port on the side of the unit connects, with an appropriate Ethernet cable, to a computer or other Ethernet device.

Sports Photojournalism



Wireless file transfer has already found a home with sports photographers and photojournalists, who benefit from the speed and ease of transferring images while they shoot. By transmitting images to a local computer, an assistant manages and forwards image files immediately. This way, the photographer can meet any deadline and

can even get feedback on images while shooting. And, there's always a back-up image, since the same file is recorded on a memory card in the camera. Whether capturing the winning dive, or the medal ceremony, the photographer will never miss a minute of the action.

* With no obstructions between the transmitting and receiving antennas, and no radio interference. With a large, high-performance antenna attached to the wireless LAN access point.
† Maximum distance requires access point with separate antenna; wireless transmission range dependent upon environmental factors and type of receiver in use.

Canon USA does not provide support for configuring TCP/IP, encryption or FTP on your computer and/or network. You should consult with your IT specialist or computer systems integrator to configure your computer and/or network for these services.

Digital Solutions for Professionals



Professional Software Tools—Digital cameras capture images as digital data. Digital photography, therefore, benefits from computer software designed to enhance capture, processing, and output. The Canon EOS System embraces a wide range of powerful software tools that provide advanced functions to aid the professional photographer.



Large Thumbnails View



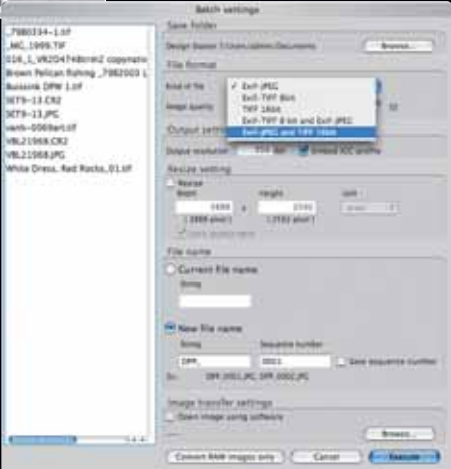
Comparison View



Stamp Tool

Picture Style

Tone Curve Adjustment Toolbar



Batch Processing Window

Live View Function

The EOS-1Ds Mark III, EOS-1D Mark III, EOS 5D Mark II, EOS 50D, and EOS 40D all offer Live View Function, which enables the image at the sensor to be displayed on a computer monitor in real time. With Canon EOS Utility software installed on the computer, the user can check and adjust focus and composition on the computer. The camera can even be fired remotely from the computer. Connection between the camera and computer can be via USB cable or, with the optional Wireless File Transmitter WFT-E2A, WFT-E3A, or WFT-E4A via wireless LAN. The wireless option enables all Live View capabilities over a distance up to 492 feet (150m).*

Live View Function is a powerful problem-solver that addresses all those situations in which it would be awkward, difficult, or impossible to shoot conventionally by looking through the viewfinder. Requested by numerous studio and remote sports photographers, the Canon Remote Live View Function enables EVF (electronic viewfinder) shooting via a wired or wirelessly connected computer. While viewing the real-time output from the camera's imaging sensor on a computer monitor, the photographer can perform numerous functions—such as check and adjust the focus using 5x and 10x magnification; check for moiré and false color; and verify composition, lighting, and exposure—before remotely releasing the shutter via the computer.



Original Data Security Kit OSK-E3

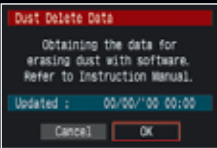
Canon's advanced data verification hardware/software kit consists of a USB card reader/writer, a dedicated Original Data Security Card, and software to be installed on a Windows computer. The system can verify the originality and integrity of image data. It can also identify specific data elements (image pixels, EXIF text, GPS info, etc.) that have been altered.



A feature in this version is encryption capability.** Photographers can encrypt their image files to prevent unauthorized viewing or wireless theft. Encrypted images can be viewed only on personal computers on which the necessary OSK-E3 decoding engine has been installed.

Dust Delete Function

By photographing a plain white card at infinity focus, the photographer can acquire data identifying the position of any dust particles on the sensor surface. This data is appended to the image file and can be used by Digital Photo Professional software to automatically erase dust spots. This unique system can be a tremendous time saver, especially for professional photographers who must shoot (and change lenses) in dusty environments. It greatly reduces time spent at the computer touching up images.



Dust Delete Function



*With no obstructions between the transmitting and receiving antennas, and no radio interference. With a large, high-performance antenna attached to the wireless LAN access point.
**Encryption possible with EOS-1Ds Mark III and EOS-1D Mark III cameras only.



Digital Photo Professional

Canon Digital Photo Professional is a RAW image processing application featuring a newly designed, dedicated data processing engine. It streamlines the workload of professional digital photographers by enabling high-speed RAW image processing and preview, with support for sRGB, Adobe RGB, and Wide Gamut RGB color spaces. It provides excellent support for color-managed workflows, and provides numerous controls for exposure and color settings. It also includes a cropping tool, lens aberration correction tools, noise reduction, a navigation tool, CMYK printer simulation, batch conversion, multiple image download, and image transfer to other photo applications.

Knowledge: The Engine of Creativity



Canon Digital Learning Center

For in-depth information and examples of the best of Canon EOS digital photography, there is nothing like the Canon Digital Learning Center (CDLC). A free, online photography resource, the CDLC website celebrates the art and science of photography with a growing collection of video tutorials, product manuals, interviews, Canon product information, contests and much more! Presented from the photographer's perspective, the tips, techniques, and galleries at the CDLC will educate and inspire. It's worth a visit, whether you're new to the EOS system or a veteran user: www.usa.canon.com/dlc.

The CDLC Home Page is your starting point to an entire world of ideas, information, and useful tools that support your creativity.

Interviews and Shooter's Insight pages show you—through pictures, words, and video—how professionals interface with their equipment to achieve unique results.

The Explorers of Light and PrintMaster Gallery section gives you A-Z access to the world's leading photographers, their biographies, and inspiring samples of their work.

The Product pages provide comprehensive information on the components of the EOS system, organized by category to help you quickly find what you're looking for.

Tips & Techniques are written by experienced experts from around the globe to help you get the most from your EOS camera and system accessories.

Check out the **Educational Events** calendar and make plans to attend shows, seminars, lectures, and hands-on workshops that will broaden your horizon.

Educational Events

For photographers looking to expand their creative and technical capabilities through hands on training, Canon offers seminars and events held all across around the nation. These events include lectures and workshops held by Canon Explorers of Light and PrintMasters as well as seminars to help you get the most out of your EOS Digital SLR. Check the Educational Events calendar at the CDLC to for an event closest to you!

EOS Discovery Day is an in-depth training presentation designed to benefit EOS DSLR owners with varying degrees of technical

proficiency. In addition to detailed instruction on camera operation and use of advanced features, the training covers helpful general photography topics and important digital basics, including printing. The course content makes heavy use of images to clearly explain and promote better understanding of key messages. Questions and answer periods and hands-on demonstrations will be part of the event.



Canon Publications

These in-depth guidebooks help professionals understand and find innovative solutions to many issues faced by photographers today.

The Imaging Systems Integration Guidebook



The Imaging Systems Integration Guidebook presents unique tips and techniques from the photographer's perspective. It is filled with examples of how today's most successful professional photographers use Canon EOS System components and imaging tools to great advantage. Read

about the different ways in which world-class photographers put the system to work to deliver the remarkable images that keep them at the top of their professions.

The Digital Photo Guidebook



The Digital Photo Guidebook is designed to assist experienced professional photographers make the transition to digital. In particular, the guidebook explains many of the creative options available when using digital camera to produce photos for commercial printing. This is a source of useful information for photographers in all fields from advertising to publishing to photojournalism, whether shooting in the field or the studio.

The Digital Color Management & Printing Guidebook



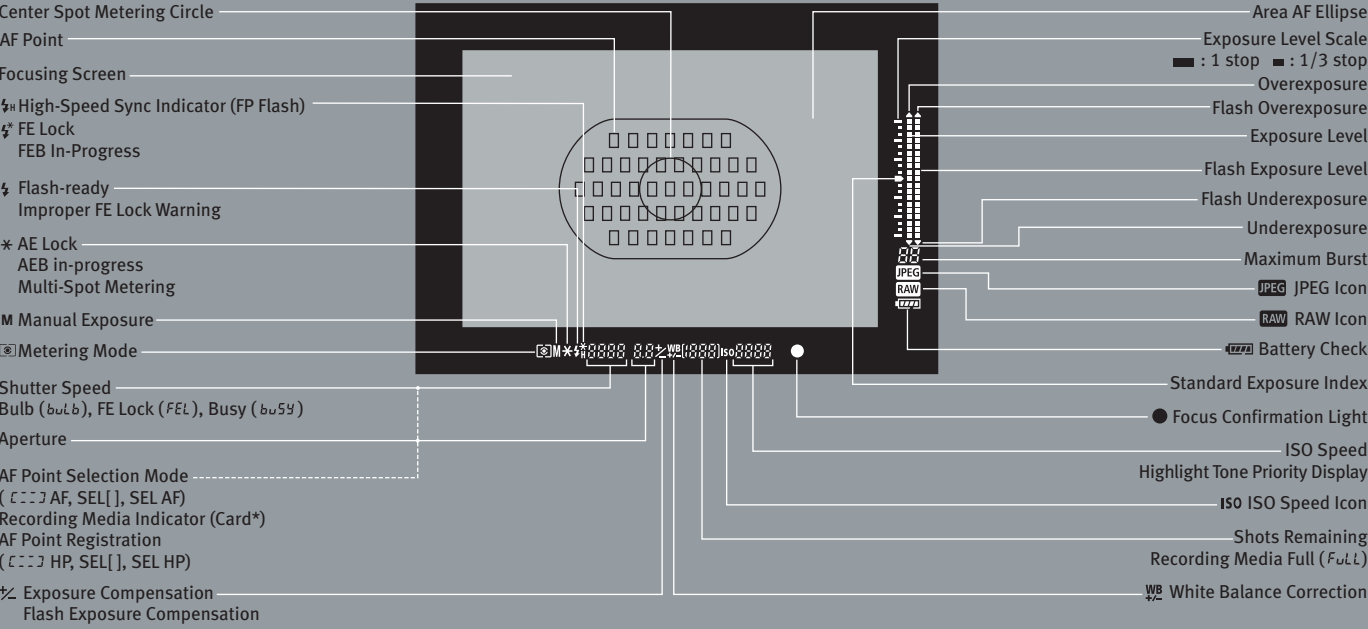
The Digital Color Management & Printing Guidebook is for photographers whose livelihoods depend on maintaining pristine image quality from capture, image transfer, and processing to projecting and printing. It is an excellent example of Canon's commitment to professionals who seek nothing short of perfection from capture to final output. From EOS Digital cameras and system components to imagePROGRAF large format printers, PIXMA photo printers, and REALiS projectors, Canon delivers the most comprehensive total imaging solution for professionals.

www.usa.canon.com/dlc

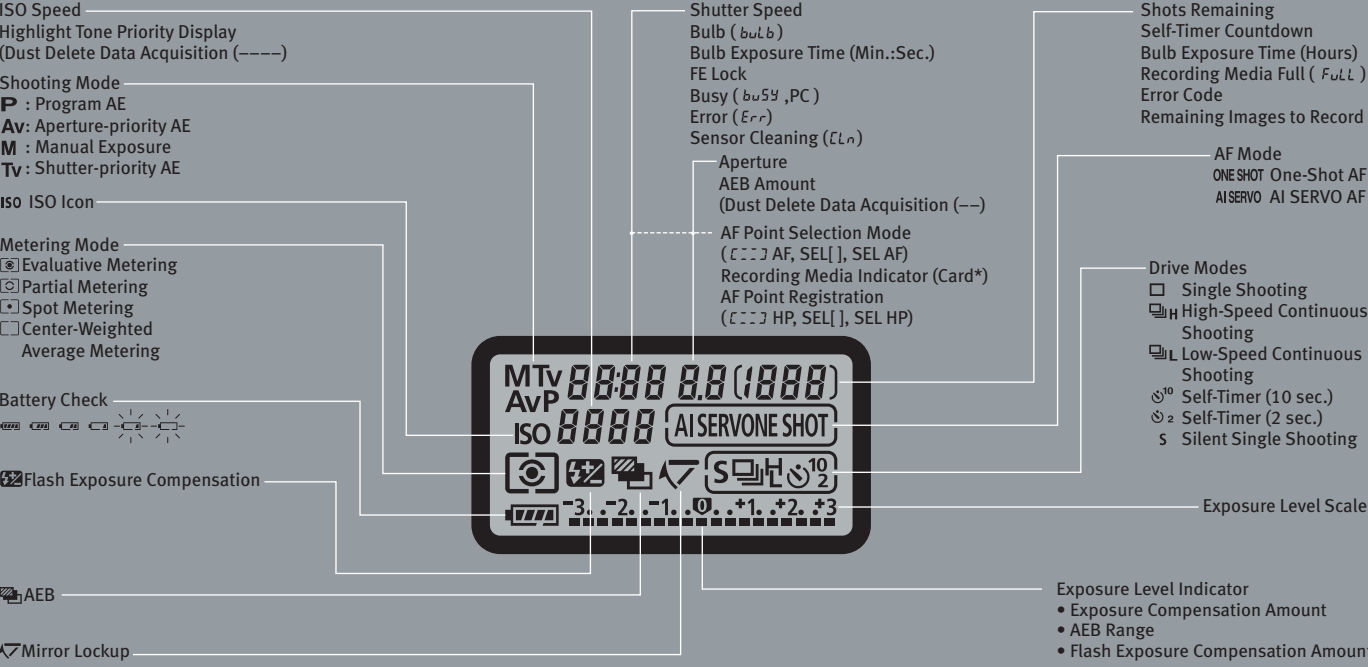
Nomenclature for EOS-1Ds Mark III



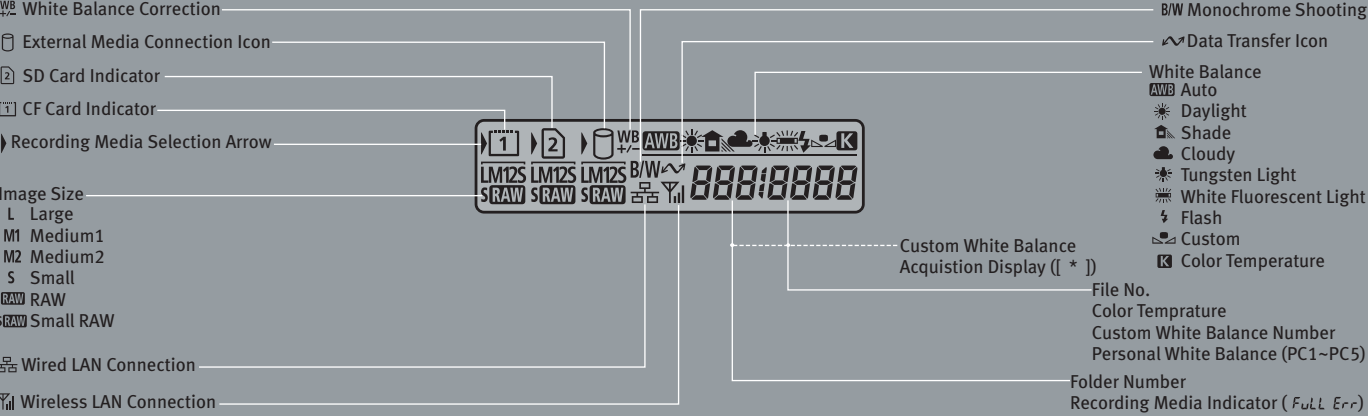
Viewfinder Information



Top LCD Panel Information



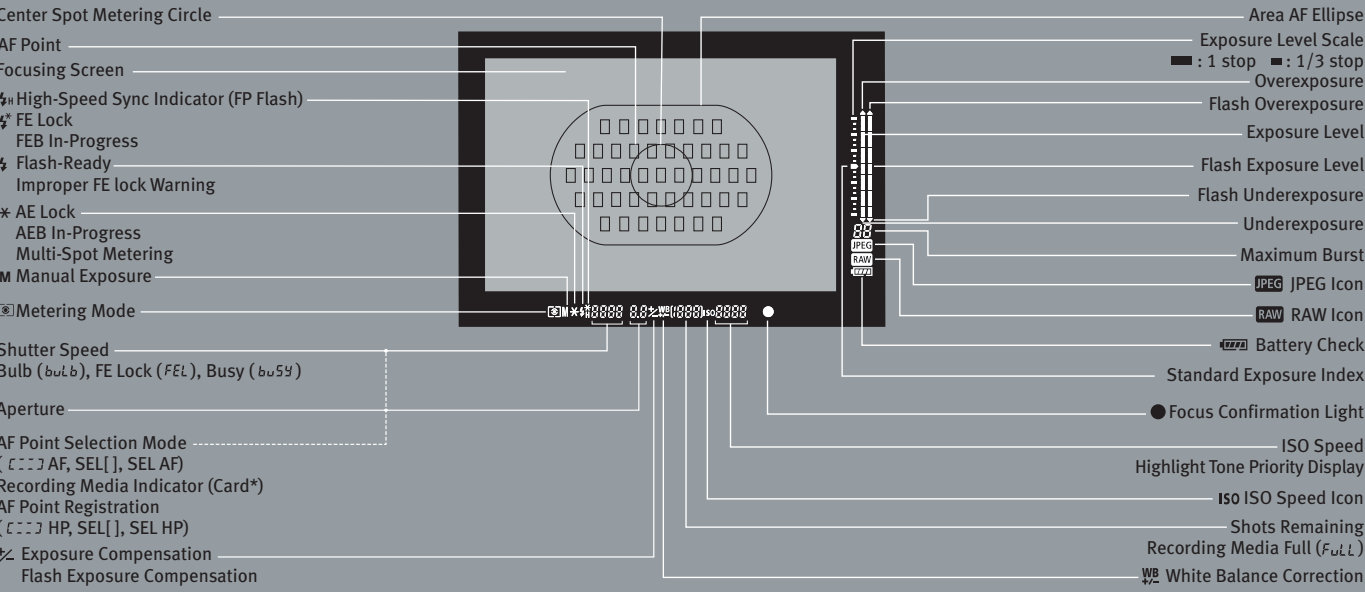
Rear LCD Panel Information



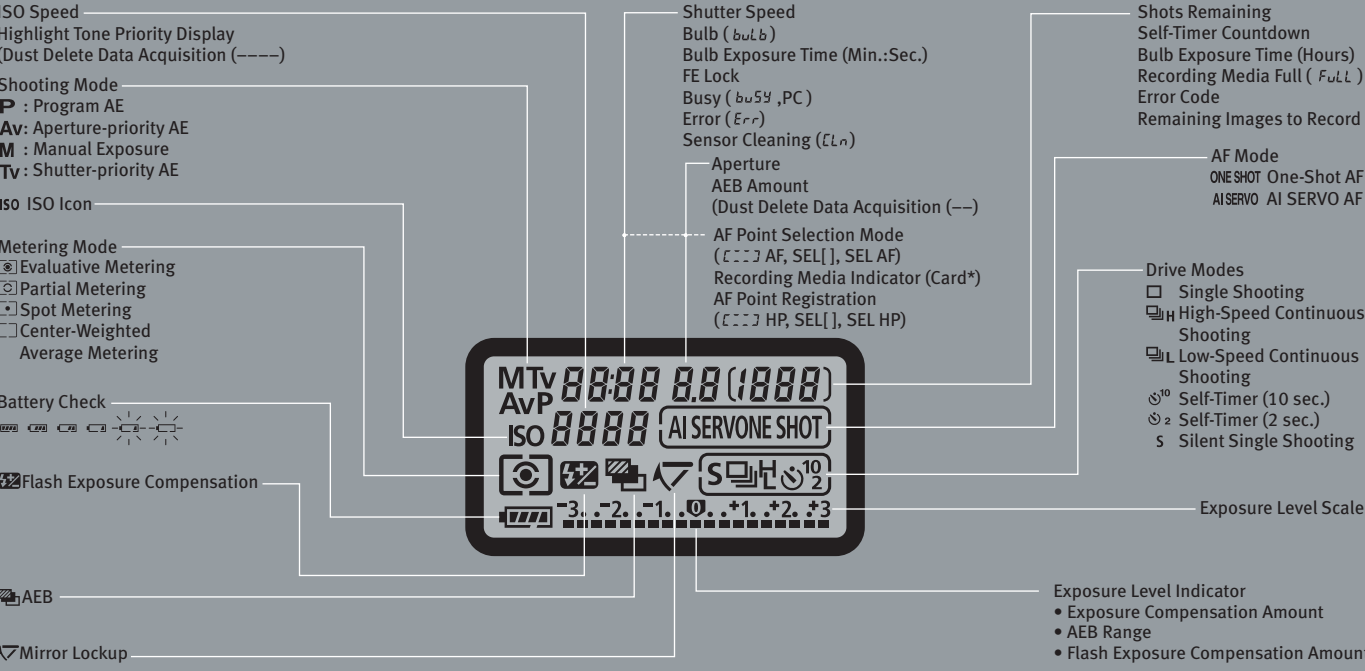
Nomenclature for EOS-1D Mark III



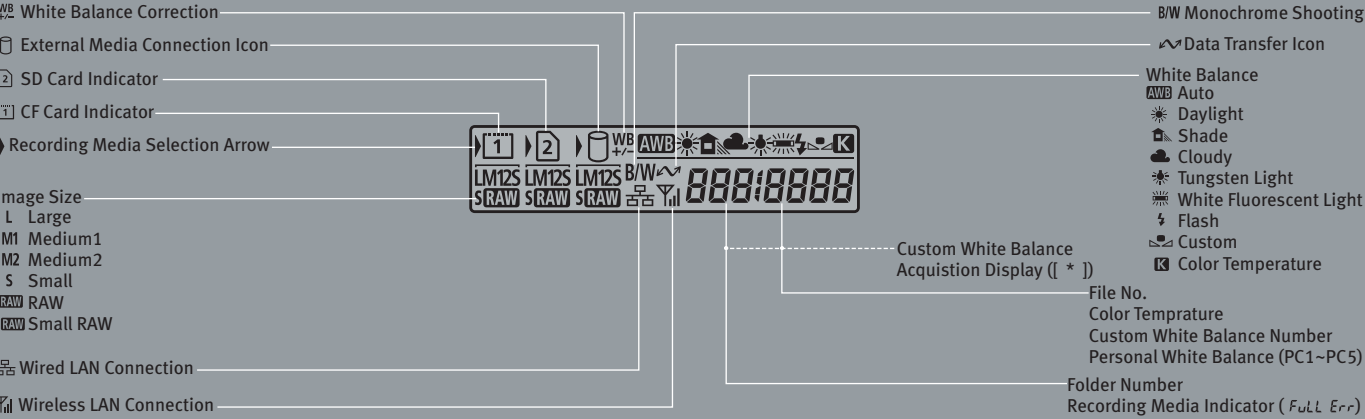
Viewfinder Information



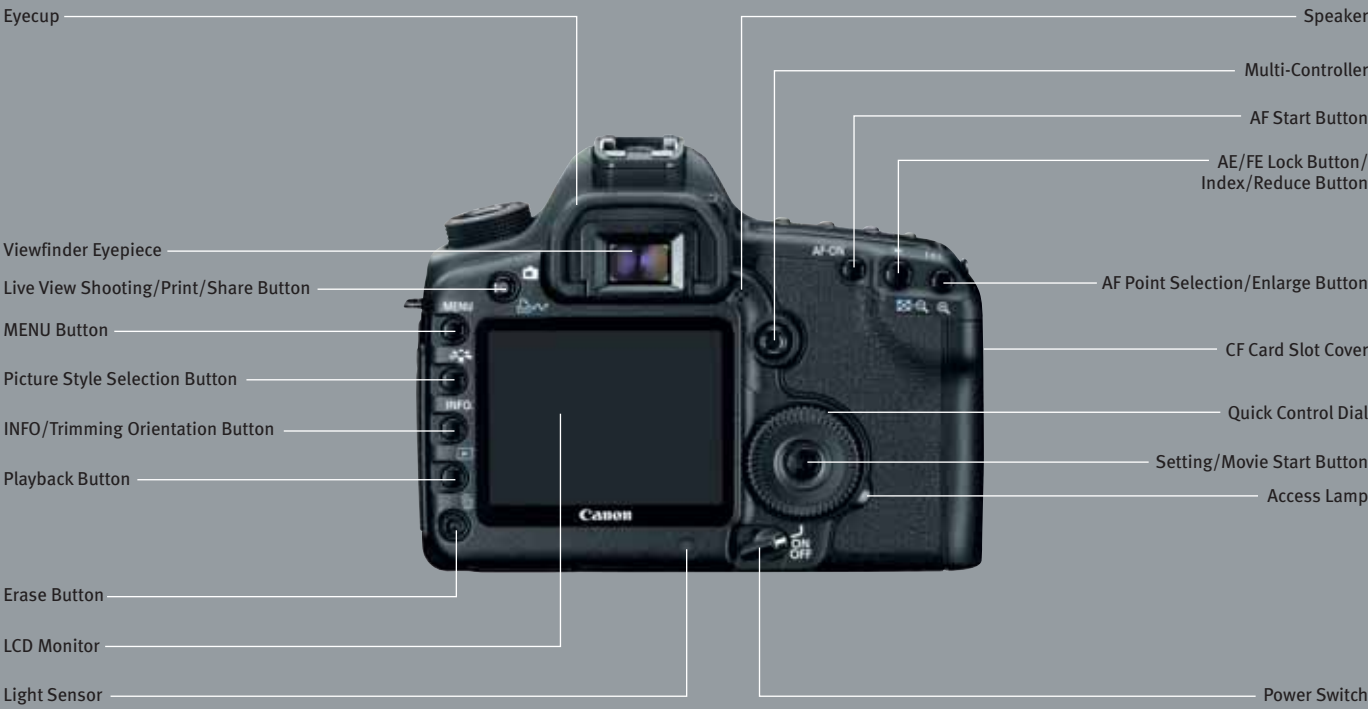
Top LCD Panel Information



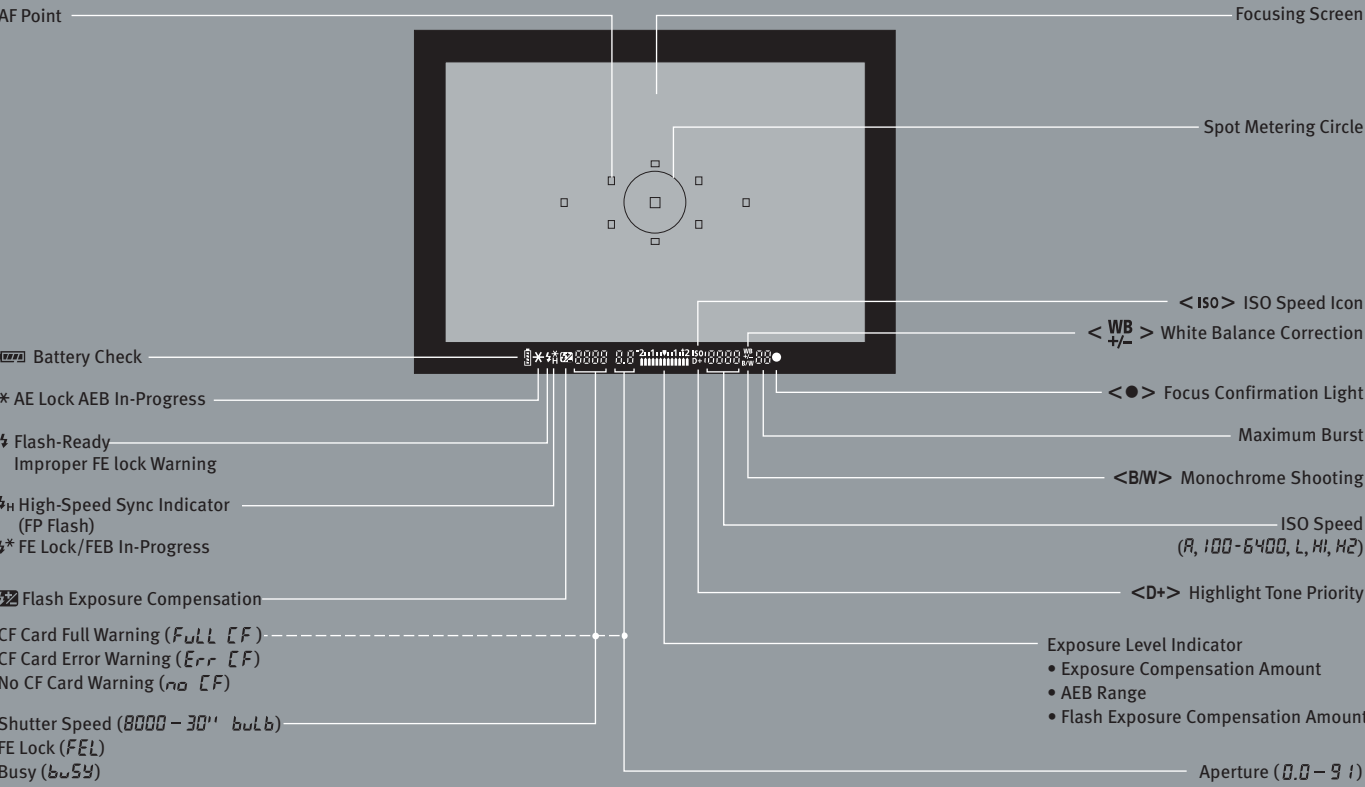
Rear LCD Panel Information



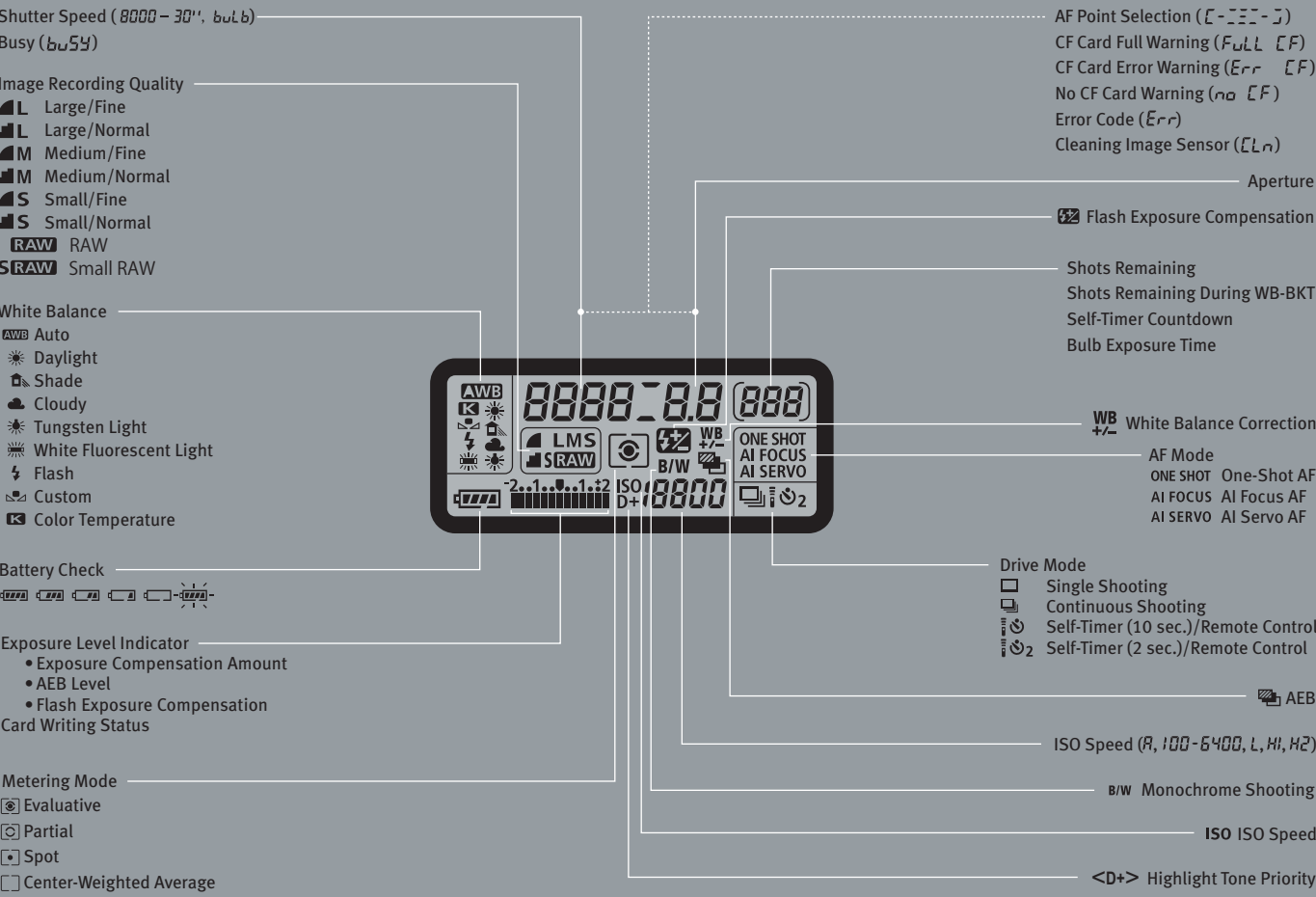
Nomenclature for EOS 5D Mark II



Viewfinder Information



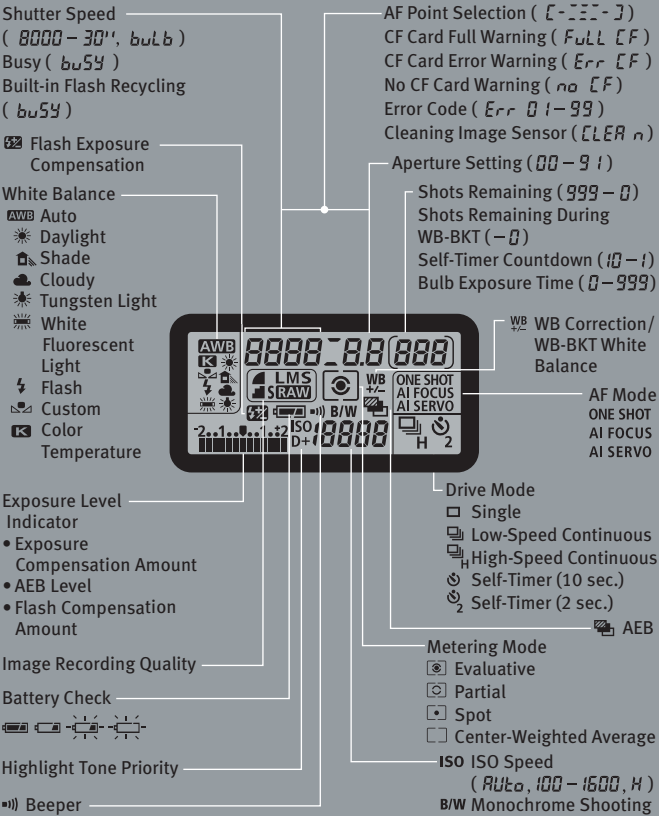
Top LCD Panel Information



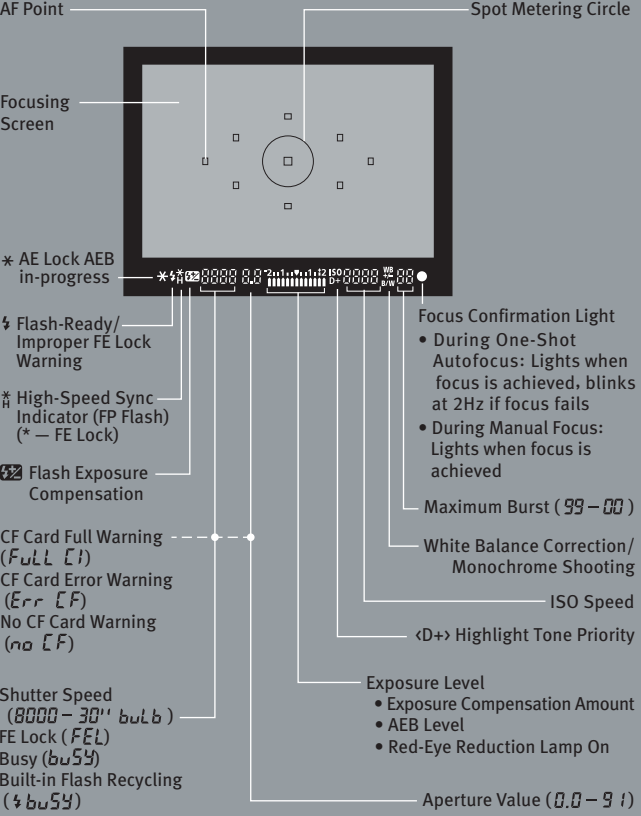
Nomenclature for EOS 50D



Top LCD Panel Information



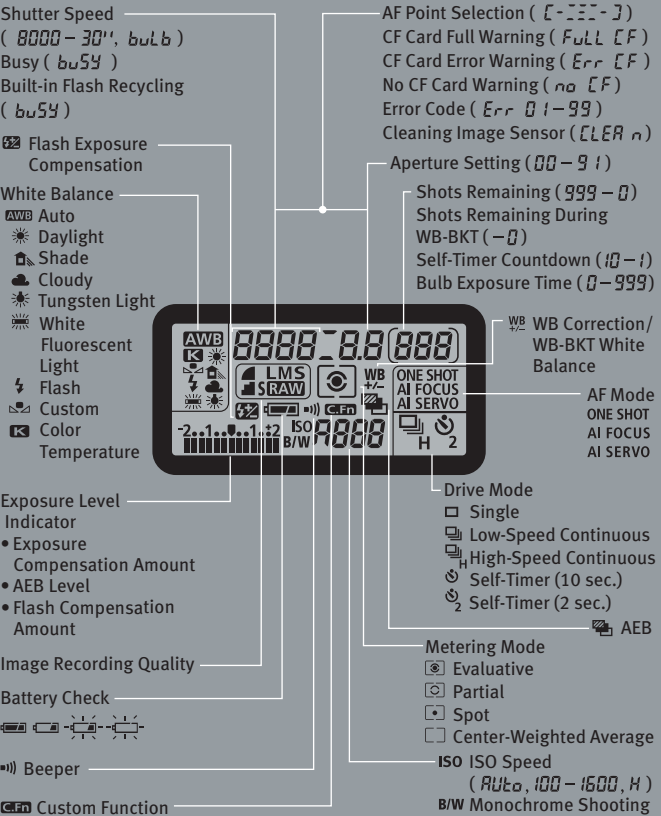
Viewfinder Information



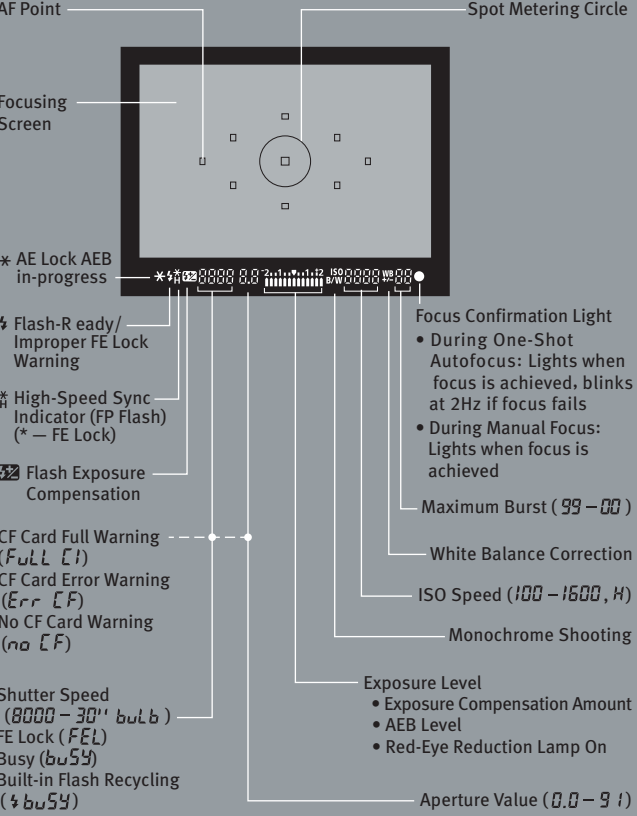
Nomenclature for EOS 40D



Top LCD Panel Information



Viewfinder Information



EOS-1Ds Mark III and EOS-1D Mark III Custom Function Chart

Custom Function	Function Description	No.	Setting	Custom Function	Function Description	No.	Setting			
C.Fn I: Exposure				6	(Cont.)	3	AF point:M → Auto/Auto → ctr			
1	Exposure level increments	0	1/3-stop increments			4	ONE SHOT ↔ AI Servo			
		1	Speeds/apertures 1-stop increments, Exposure compensation in 1/3-stops			5	IS start			
		2	1/2-stop increments			6	Switch to registered AF point			
2	ISO speed setting increments	0	ISO set in 1/3-stop increments	7	AF Microadjustment	0	Disable (no adjustment for front or back-focus)			
		1	ISO set in 1-stop increments			1	Adjust all by same amount	Forward: -20 0 +20		
3	Set ISO speed range	–	Disable (camera ISO range 100–3200)			2	Adjust by lens	Backward		
			Enable (apply user-registered available ISO range)	8	AF expansion with selected pt	0	Disable (one AF point only when manually selected)			
			Register			Set highest ISO (1-stop increments) up to "H"	1	Enable (expand by adding left/right Assist pts)		
						Set lowest ISO (1-stop increments), "L" thru 1600(1Ds)/3200(1D)	2	Enable (expand by adding ring of six surrounding Assist pts)		
		Return					0	19 points		
4	Bracketing Auto Cancel	0	On (AEB cancels if camera turned off, etc.)	9	Selectable AF point	1	Inner 9 points			
		1	Off (AEB remains in effect unless flash turned on)			2	Outer 9 points			
5	Bracketing sequence	0	0 → – → +	10	Switch to registered AF point	0	Disable			
		1	– → 0 → +			1	Enable			
		2	+ → 0 → –	11	AF point auto selection	0	☑ direct: disable / ☹: enable			
6	Number of bracketing shots	0	3 shots			1	☑ direct: disable / ☹: disable (auto AF select mode impossible to access)			
		1	2 shots			2	☑ direct: enable / ☹: enable			
		2	5 shots	12	AF point display during focus	0	On (red illumination on)			
		3	7 shots			1	Off			
7	Spot metering link to AF point	0	Disable (spot metering always at center)			2	On (lights momentarily when focus achieved)			
1		Enable (spot metering at manually selected AF pt.)	0	Normal						
8	Safety Shift	0	Disable	13	AF point brightness	1	Brighter			
		1	Enable (Tv/Av modes)			14	AF-assist beam firing	0	Enable (Speedlite's AF assist beam fires normally)	
		2	Enable (ISO speed shifts, in P, Tv, Av modes)	1	Disable					
9	Select usable shooting modes	–	Disable (all exposure modes available)	15	Mirror lockup	0	Disable			
			Enable (only modes registered are selectable)			1	Enable (mirror lowers after each shot)			
			Register			M	P	2	Enable: Down with SET (mirror remains up until SET pressed)	
				Tv	BULB					
		10	Select usable metering modes	–	Av	Apply	16	Continuous shooting speed	–	Disable (shoots at default fps rates)
Register	☒				☐	Enable (applies user-registered fps rates)				
☑	Apply				Register	High speed: 5,4,3,2 fps(1Ds)/10–2 fps(1D) Per shot				
☐	Apply					Low speed: 1,2,3,4 fps(1Ds)/1,3–9 fps(1D) Per shot				
11	Metering pattern in Manual mode			0	Specified metering mode on camera's LCD panel	17	Limit continuous shot count	–	Disable	
		1	Evaluative metering only in M mode		Enable					
		2	Partial metering only in M mode		Register				Limited shots: 99–2	
		3	Spot metering only in M mode						Apply	
		4	Center-weighted average only in M mode	C.Fn IV: Operation/Others						
12	Set shutter speed range	–	Disable	1	Shutter button / AF-ON button	0	Metering + AF start (at both buttons)			
			Enable (apply user-registered range)			1	Metering + AF start/AF stop			
			Register			Highest speed: 250–8000	2	Metering start/Meter + AF start (no AF at shutter button)		
						Lowest speed: 30"–60	3	AE lock/Metering + AF start		
		Apply				4	Metering + AF start/disable (AF-on button)			
13	Set aperture value range	–	Disable (use lens's full aperture range)	2	AF-ON/AE lock button switch	0	Disable			
			Enable (apply user-registered aperture range)			1	Enable (reverse role of AEL and AF-on buttons)			
			Register			Min. aperture (Max. f/): 1.4–91	3	Quick Control Dial in meter	0	Exposure comp/Aperture
						Max. aperture ((Min. f/): 1.0–64			1	AF point selection (instant AF point access with rear dial)
		Apply				2			ISO speed (instant ISO access with rear dial)	
14	Apply shooting/ Metering mode	–	Disable (no switching to registered settings)	4	SET button when shooting	0			Normal (disabled)	
			Enable (Press " " button to switch settings)			1	White balance			
			Register			With AE lock button (AF on)	2	Image size		
						With AE lock button (AF off)	3	ISO Speed		
		15				Flash sync. speed in Av mode	0	Auto (shutter speed set based on ambient light)	4	Picture Style
1	1/250 sec.(1Ds)/1/300 sec.(1D) fixed	5	Record func. + media/folder							
C.Fn II: Image/Flash exp/Display				5	Tv/Av setting for Manual exp.	6	Menu display			
1	Long exp. noise reduction	0	Off			7	Image playback			
		1	Auto (camera decides whether to apply reduction)	0	Tv= ☹ / Av= ☹					
		2	On (noise reduction applied; 1 sec. and longer only)	1	Tv= ☹ / Av= ☹ (reverse functions in M mode for top/rear dials)					
2	High ISO speed noise reduction	0	Off	6	Dial direction during Tv/Av	0	Normal			
		1	On			1	Reserve direction			
3	Highlight tone priority	0	Disable	7	Av setting without lens	0	Disable			
		1	Enable			1	Enable (possible to set aperture on body w/o lens)			
4	E-TTL II flash metering	0	Evaluative flash metering	08	WB + media/image size setting	0	Rear LCD panel			
		1	Average flash metering over all 63 metering zones			1	LCD monitor (displayed when FUNC button pressed)			
5	Shutter curtain sync.	0	1st-curtain synchronization	09	☑/☹ Button function	0	Protect (hold button in: sound rec.)			
		1	2nd-curtain synchronization (EOS Speedlites only)			1	Sound rec. (press & release; protect possible via menu only)			
6	Flash firing	0	Enable	10	Button function when ☹ off	0	Normal (enable)			
		1	Disable – AF assist beam continues to operate			1	Disable ☹, ☹, Multi-controller			
7	Viewfinder info. during exp.	0	Disable	11	Focusing screen	0	[L] Ec-C IV			
		1	Enable (viewfinder info visible during bursts)			1	[L] Ec-A, B, C, C II, C III, D, H, I, L			
8	LCD panel illumination during Bulb	0	Off			2	[P] Ec-S			
		1	On during Bulb			3	[N] Ec-N, R			
9	INFO button when shooting	0	LCD monitor Displays camera settings	12	Timer length for timer	–	Disable (use camera's built-in settings)			
		1	LCD monitor Displays shooting functions				Enable (apply user-registered changes)			
C.Fn III: Autofocus/Drive							13	Shortened release time lag	0	Disable (standard 55ms "time lag")
1	USM lens electronic MF	0	MF possible after One-shot AF completed						1	Enable (as low as 40ms, depending upon lens aperture)
		1	Disable after One-shot AF				0	Off		
2	AI Servo tracking sensitivity	2	Disable completely in AF mode				14	Add aspect ratio information	1	Aspect ratio 6:6
		–	Slow: -2, -1, 0, +1, +2: Fast	2	Aspect ratio 3:4					
3	AI Servo 1st/2nd image priority	0	AF priority/2nd shot onward – Tracking priority	3	Aspect ratio 4:5					
		1	AF priority/2nd shot onward – Drive speed priority	4	Aspect ratio 6:7					
4	AI Servo AF tracking method	2	Release/2nd shot onward – Drive speed priority	5	Aspect ratio 10:12					
		0	Main focus point priority	6	Aspect ratio 5:7					
5	Lens drive when AF impossible	0	Continuous AF track priority (ignores closer objects)	15	Add original decision data	0			Off	
		1	Focus search on			1	On (used by optional Original Data Security Kit)			
6	Lens AF stop button function (select Canon Super-telephoto IS lenses only)	0	Focus search off	16	Live View Function exposure simulation	0	Disable (LCD auto adjust)			
		0	AF stop			1	Enable (LCD simulates actual exposure level)			
		1	AF start							
2	AE lock									

EOS 5D Mark II Custom Function Chart

Custom Function	Function Description	No.	Setting
C.Fn I: Exposure			
1	Exposure level increments	0	1/3-stop
		1	1/2-stop
2	ISO speed setting increments	0	1/3-stop
		1	1-stop
3	ISO expansion	0	Off
		1	On
4	Bracketing auto cancel	0	On
		1	Off
5	Bracketing sequence	0	0, -, +
		1	-, 0, +
6	Safety shift	0	Disable
		1	Enable (Tv/Av)
7	Flash sync. speed in Av mode	0	Auto
		1	1/200–1/60 sec. (auto)
		2	1/200 sec. (fixed)
C.Fn II: Image			
1	Long exposure noise reduction	0	Off
		1	Auto
		2	On
2	High ISO speed noise reduction	0	Standard
		1	Weak
		2	Strong
		3	Disable
3	Highlight Tone Priority	0	Disable
		1	Enable
4	Auto Lighting Optimizer	0	Standard
		1	Weak
		2	Strong
		3	Disable
C.Fn III: Autofocus/Drive			
1	Lens drive when AF impossible	0	Focus search on
		1	Focus search off
2	Lens AF stop button function	0	AF stop
		1	AF start
		2	AE lock
		3	AF point: M → Auto/Auto → ctr
		4	ONE SHOT ↔ AI SERVO
3	AF point selection method	5	IS start
		0	Normal
		1	Multi-controller direct
4	Superimposed display	2	Quick Control Dial direct
		0	On
5	AF-assist beam firing	1	Off
		0	Enable
6	Mirror lockup	1	Disable
		0	Disable
7	AF point area expansion	1	Enable
		0	Disable
8	AF Microadjustment	1	Adjust all by same amount
		2	Adjust by lens
		0	Disable
C.Fn IV: Operation/Others			
1	Shutter button/AF-ON button	0	Metering + AF start
		1	Metering + AF start/AF stop
		2	Metering start/Meter + AF start
		3	AE lock/Metering + AF start
		4	Metering + AF start/disable
2	AF-ON/AE lock button switch	0	Disable
		1	Enable
3	Assign SET button	0	Normal (disabled)
		1	Change quality
		2	Change Picture Style
		3	Menu display
		4	Image replay
		5	Quick control screen
4	Dial direction during Tv/Av	6	Record movie (Live View)
		0	Normal
5	Focusing screen	1	Reverse direction
		0	Ef-A
		1	Ef-D
		2	Ef-S
6	Add original decision data	0	Off
		1	On

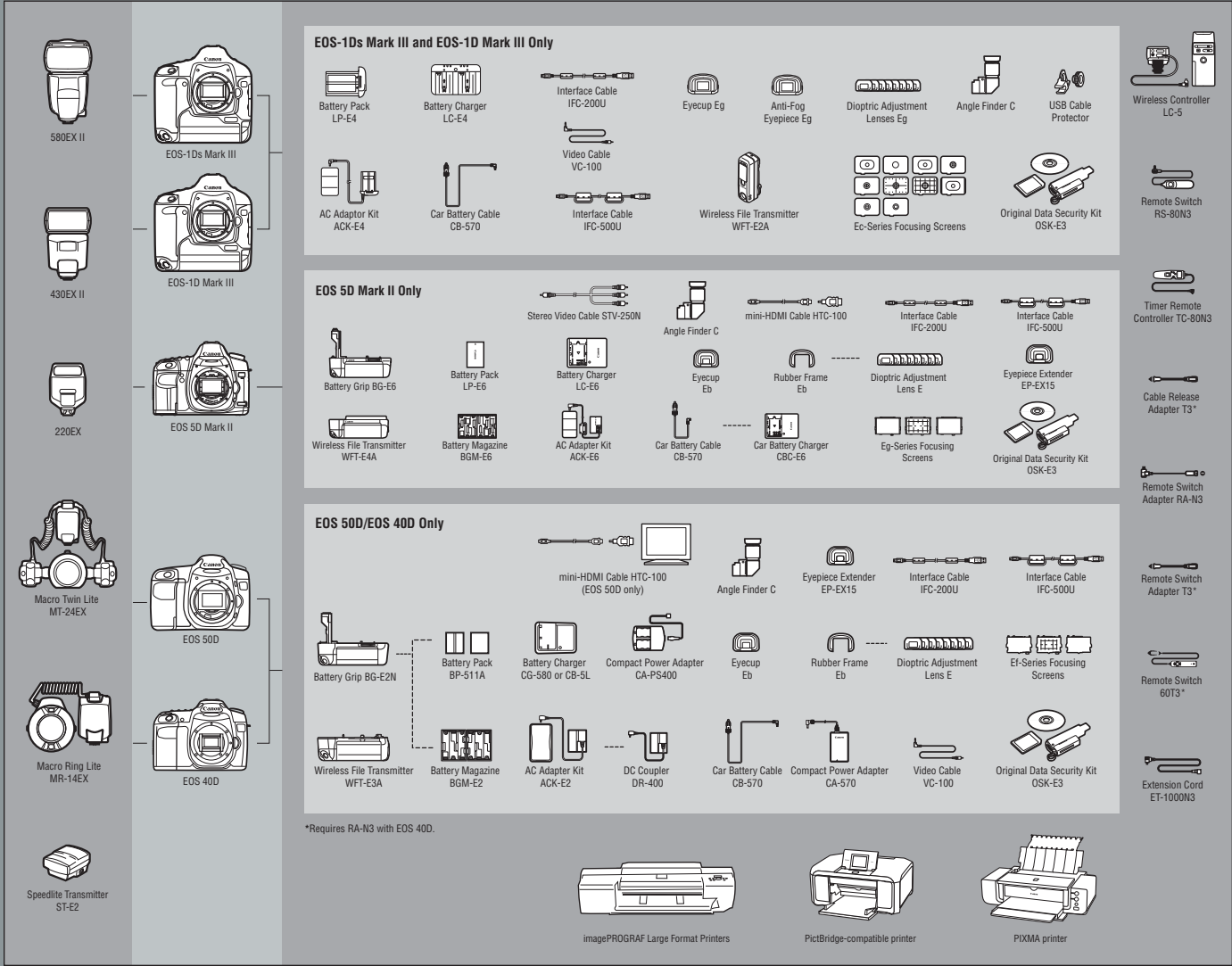
EOS 50D Custom Function Chart

Custom Function	Function Description	No.	Setting
C.Fn I: Exposure			
1	Exposure level increments	0	1/3-stop
		1	1/2-stop
2	ISO speed setting increments	0	1/3-stop
		1	1-stop
3	ISO expansion	0	Off
		1	On
4	Bracketing auto cancel	0	On
		1	Off
5	Bracketing sequence	0	0, -, +
		1	-, 0, +
6	Safety shift	0	Disable
		1	Enable (Tv/Av)
7	Flash sync. speed in Av mode	0	Auto
		1	1/250–1/60 sec. (auto)
		2	1/250 sec. (fixed)
C.Fn II: Image			
1	Long exposure noise reduction	0	Off
		1	Auto
		2	On
2	High ISO speed/noise reduction	0	Standard
		1	Low
		2	Strong
		3	Disable
3	Highlight Tone Priority	0	Disable
		1	Enable
4	Auto Lighting Optimizer	0	Standard
		1	Low
		2	Strong
		3	Disable
C.Fn III: Autofocus/Drive			
1	Lens drive when AF impossible	4	Focus search on
		5	Focus search off
2	Lens AF stop button	0	AF stop
		1	AF start
		2	AE lock
		3	AF point: M →Auto/Auto →ctr
		4	ONE SHOT ↔ AI SERVO
		5	IS start
3	AF point selection method	0	Normal
		1	Multi-controller direct
		2	Quick Control Dial direct
4	Superimposed display	0	On
		1	Off
5	AF-assist beam firing	0	Enable
		1	Disable
		2	Only external flash emits
6	Mirror lockup	0	Disable
		1	Enable
7	AF Microadjustment	0	Disable
		1	Adjust all by same amount
		2	Adjust by lens
C.Fn IV: Operation/Others			
1	Shutter button/AF-ON button	0	Metering + AF start
		1	Metering + AF start/AF stop
		2	Metering start/Meter + AF start
		3	AE lock/Metering + AF start
2	AF-ON/AE lock button switch	0	Disable
		1	Enable
3	Assign SET button	0	Normal
		1	Image replay
		2	Picture Style
		3	Menu display
		4	Image replay
		5	Quick Control screen
4	Dial direction during Tv/Av	0	Normal
		1	Reverse direction
5	Focusing screen	0	EF-A
		1	EF-D
		2	EF-S
6	Add original decision data	0	Off
		1	On
7	Assign FUNC. button	0	LCD brightness
		1	Image quality
		2	Exposure comp/AEB setting

EOS 40D Custom Function Chart

Custom Function	Function Description	No.	Setting	Custom Function	Function Description	No.	Setting
C.Fn I: Exposure				C.Fn III: Exposure			
1	Exposure level increments	0	1/3-stop	4	Superimposed Display	0	On
		1	1/2-stop			1	Off
2	ISO speed setting increments	0	1/3-stop			0	Enable
		1	1-stop	5	AF-assist beam firing	1	Disable
3	ISO expansion	0	Off			2	Only external flash emits
		1	On	6	AF during Live View Function shooting	0	Disable
4	Bracketing auto cancel	0	On			1	Enable
		1	Off	7	Monitor lockup	0	Disable
5	Bracketing sequence	0	0, -, +			1	Enable
		1	-, 0, +	C.Fn IV: Operation/Others			
6	Safety Shift	0	Disable	1	Shutter button/AF-ON button	0	Metering + AF start
		1	Enable (Tv/Av)			1	Metering 3+ AF start/AF stop
7	Flash sync. Speed in Av mode	0	Auto			2	Metering start/Metering + AF start
		1	1/250 sec. (fixed)			3	AE lock/Metering + AF start
C.Fn II: Image						4	Metering + AF start/Disable
1	Long exp. noise reduction	0	Off	2	AF-ON/AE lock button switch	0	Disable
		1	Auto			1	Enable
		2	On	3	SET button when shooting	0	Normal (disabled)
2	High ISO speed/noise reduction	0	Off			1	Change quality
		1	On			2	Change Picture Style
3	Highlight tone priority	0	Disable			3	Menu display
		1	Enable			4	Image replay
C.Fn III: Autofocus/Drive				4	Dial direction during Tv/Av	0	Normal
1	Lens drive when AF impossible	0	Focus search on			1	Reverse direction
		1	Focus search off	5	Focusing screen	0	EFA
		0	AF stop			1	EF-D
2	Lens AF stop button	1	AF start			2	EF-S
		2	AE lock	6	Add original decision data	0	Off
		3	AF point M → Auto/Auto →ctr			1	On
		4	ONE SHOT ↔ AI SERVO	7	Live View Function exposure simulation	0	Disable (LCD auto adjust)
		5	IS start			1	Enable (simulate exposure)
3	AF point selection method	0	Normal				
		1	Multi-controller direct				
		2	Quick Control Dial direct				

System Chart



Specifications

	EOS 5D Mark II	EOS 50D
Autofocus System	TTL-CT-SIR CMOS Sensor (only the center point is cross type); One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection	TTL-CT-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF and EF-S lenses; Automatic or manual focus point selection
Image Processor / Image Sensor	DIGIC 4 / 36.0 x 24.0mm, Single-plate CMOS Sensor with Auto Sensor Cleaning	DIGIC 4 / 22.3 x 14.9mm, single-plate CMOS Sensor with Auto Sensor Cleaning
Crop Factor	1.0x (full-frame)	1.6x (APS-C)
Special Features	<ul style="list-style-type: none">• 21.1 Megapixel CMOS Digital SLR camera• Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor• 25 Custom functions with 71 settings• Multi-controller• Simultaneous RAW and JPEG image capture• Diopttric adjustment• Depth-of-field preview <ul style="list-style-type: none">• FE lock• Mirror lock• N3 remote control socket• USB 2.0 Hi-Speed compatible• Magnesium alloy body• Picture Style• Dust reduction feature• Live View Function & Face Detection Live mode• Live View movies in Full High Definition	<ul style="list-style-type: none">• 15.1 Megapixel CMOS Digital SLR camera• Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor• 25 Custom functions with 72 settings• Multi-controller• Simultaneous RAW and JPEG image capture• Diopttric adjustment• Depth-of-field preview <ul style="list-style-type: none">• FE lock• Mirror lock• Retractable built-in E-TTL II flash• N3 remote control socket• USB 2.0 Hi-Speed compatible• Magnesium alloy body• Picture Style• Dust reduction feature• Live View Function & Face Detection Live mode
Number of Focusing Points	9 (plus 6 Assist AF points); Center AF point is cross-type Hybrid high and standard precision	9; Each AF point has cross-type sensors—Center AF point also has an additional, diagonally mounted, high-precision cross-type sensor with f/2.8 or faster lenses
ISO Range*	ISO 100–6400, ISO 50, 12800 and 25600 via Menu Selection	ISO 100–3200, ISO 6400 and 12800 via Custom Function
Recording Media	UDMA CF/CF (Type I or II) card	UDMA CF/CF (Type I or II) card
Frames Per Second	Single, 3.9 fps	Single, 3.0 fps, 6.3 fps
Shutter Speeds	30–1/8000 sec. & Bulb; manually settable in 1/3-, 1/2-stop increments	30–1/8000 sec. & Bulb; manually settable in 1/3- or 1/2-stop increments
Autofocus Sensitivity	EV -0.5–18 (at ISO 100)	EV -0.5–18 (at ISO 100)
Maximum Flash Synchronization Speed	Up to 1/200 sec.; high-speed sync. available with EX-series Speedlites	Up to 1/250 sec.; high-speed sync. available with EX-series Speedlites
Metering System	TTL full-aperture metering: <ul style="list-style-type: none">• 35-zone Evaluative metering• 8% Partial metering• 3.5% Center spot metering• Center-weighted average metering• Pre-flash metering (E-TTL II)	TTL full-aperture metering: <ul style="list-style-type: none">• 35-zone Evaluative metering,• 9% Partial metering,• 3.8% Spot metering,• Center-weighted average metering,• Pre-flash metering (E-TTL II)
Metering Sensitivity	EV 1–20 for all patterns (at ISO 100 with f/1.4 lens)	EV 1–20 for all patterns (at ISO 100 with f/1.4 lens)
Exposure Compensation	±2 stops in 1/3- or 1/2-stop increments	±2 stops in 1/3- or 1/2-stop increments
Flash Exposure Compensation	±2 stops in 1/3- or 1/2-stop increments	±2 stops in 1/3- or 1/2-stop increments
AE Lock	Yes	Yes
Exposure Modes	<ul style="list-style-type: none">• Program AE (shiftable)• Shutter Speed-priority AE• Aperture-priority AE• Creative Auto <ul style="list-style-type: none">• Full Auto• Manual• E-TTL II Flash AE	<ul style="list-style-type: none">• Program AE (shiftable)• Shutter Speed-priority AE• Aperture-priority AE• Depth-of-Field AE• Creative Auto <ul style="list-style-type: none">• Full Auto• Manual• E-TTL II Flash AE• 6 PIC (Programmed Image Control) modes
Viewfinder Coverage	98% horizontal/vertical at 0.71x	95% horizontal/vertical at 0.95x
Viewfinder Information	Inside the picture area: Nine focusing points, 3.5% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD <ul style="list-style-type: none">• Shutter speed• Aperture value• AE Lock• FE Lock• Max. burst• Exposure level• Flash exposure compensation• Exposure bracketing <ul style="list-style-type: none">• Flash ready/High-speed sync• B/W shooting• Highlight Tone Priority• Focus confirmation• White Balance +/-• ISO speed• CF card full warning	Inside the picture area: Nine focusing points, 3.8% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD <ul style="list-style-type: none">• Shutter speed• Aperture value• AE Lock• FE Lock• Max. burst• Exposure level• Flash exposure compensation• Exposure bracketing <ul style="list-style-type: none">• Flash ready/High-speed sync• Highlight Tone Priority• Focus confirmation• White Balance +/-• CF card full warning
Focusing Screen	Precision laser-matte screen Ef-A marked with focusing points and Spot metering circle (interchangeable with Eg-series focusing screens)	Precision laser-matte screen Ef-A marked with focusing points and Spot metering circle (interchangeable with dedicated Ef-series screens. Metering correction can be set with Custom Function IV-5)
Self-Timer	Electronically controlled with 2- or 10-second delay	Electronically controlled with 2- or 10-second delay
Body Dimensions (W x H x D)	6.0 x 4.5 x 3.0 in./152 x 113.5 x 75mm	5.7 x 4.2 x 2.9 in./145.5 x 107.8 x 73.5mm
Weight (w/o battery, lens, CF or SD)	28.6 oz./810g	25.7 oz./730g

*Standard output sensitivity. Recommended exposure index.

	EOS 40D
Autofocus System	TTL-CT-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF and EF-S lenses; Automatic or manual focus point selection
Image Processor / Image Sensor	DIGIC III / 22.2 x 14.8mm, single-plate CMOS Sensor with Auto Sensor Cleaning
Crop Factor	1.6x (APS-C)
Special Features	<ul style="list-style-type: none">• 10.1 Megapixel CMOS Digital SLR camera• Built-in 3.0" (approx. 230,000 dots) wide viewing angle color monitor• 24 Custom functions with 62 settings• Multi-controller• Simultaneous RAW and JPEG image capture• Diopttric adjustment• Depth-of-field preview <ul style="list-style-type: none">• FE lock• Mirror lock• Retractable built-in E-TTL II flash• N3 remote control socket• USB 2.0 Hi-Speed compatible• Magnesium alloy body• Picture Style• Dust reduction feature• Live View Function
Number of Focusing Points	9; Each AF point has cross-type sensors—Center AF point also has additinoal cross-type sensor with f/2.8 or faster lenses
ISO Range*	ISO 100–1600, ISO 3200 via Custom Function
Recording Media	CF card (Type I or II)
Frames Per Second	Single, 3.0 fps, 6.5 fps
Shutter Speeds	30–1/8000 sec. & Bulb; manually settable in 1/3- or 1/2-stop increments
Autofocus Sensitivity	EV -0.5–18 (at ISO 100)
Maximum Flash Synchronization Speed	Up to 1/250 sec.; high-speed sync. available with EX-series Speedlites
Metering System	TTL full-aperture metering: <ul style="list-style-type: none">• 35-zone Evaluative metering• 9% Partial metering• 3.8% Center spot metering• Center-weighted average metering• Pre-flash metering (E-TTL II)
Metering Sensitivity	EV 0–20 for all patterns (at ISO 100 with f/1.4 lens)
Exposure Compensation	±2 stops in 1/3- or 1/2-stop increments
Flash Exposure Compensation	±2 stops in 1/3- or 1/2-stop increments
AE Lock	Yes
Exposure Modes	<ul style="list-style-type: none">• Program AE (shiftable)• Shutter Speed-priority AE• Aperture-priority AE• Auto Depth-of-Field AE• Full Auto <ul style="list-style-type: none">• Manual• E-TTL II Flash AE• 6 PIC (Programmed Image Control) modes• 3 user-defined Custom Modes
Viewfinder Coverage	95% horizontal/vertical at 0.76x
Viewfinder Information	Inside the picture area: Nine focusing points, 3.8% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD <ul style="list-style-type: none">• Shutter speed• Aperture value• AE Lock• FE Lock• Max. burst• Exposure level <ul style="list-style-type: none">• Flash exposure compensation• Exposure bracketing• Flash ready/High-speed sync• Focus confirmation• White Balance +/-• CF card full warning
Focusing Screen	Precision laser-matte screen Ef-A marked with focusing points and Spot metering circle (interchangeable with dedicated Ef-series screens. Metering correction can be set with Custom Function IV-5)
Self-Timer	Electronically controlled with 2- or 10-second delay
Body Dimensions (W x H x D)	5.7 x 4.2 x 2.9 in./145.5 x 107.8 x 73.5mm
Weight (w/o battery, lens, CF or SD)	26.1 oz./740g



The images used throughout this brochure unless not noted, are photographed by "Canon Explorers of Light," a select group of photographers who shoot with Canon EOS System cameras and "Canon PrintMasters," a select group of photographers who shoot with Canon EOS System cameras and print exclusively with Canon Professional Printers. They are among the top photographers in the world and work in diverse photographic disciplines including journalism, nature, fashion, fine-art, portrait and commercial.

EOS product photography by Michel Tcherevkoff, Explorer of Light and PrintMaster and shoots with the EOS-1Ds Mark III.



To learn more about Explorers of Light and PrintMasters and to see more images taken by them, visit the Canon Digital Learning Center at: www.usa.canon.com/dlc

All LCD and printer output images are simulated. All data are based on Canon's Standard Test Method. Specifications and availability subject to change without notice. Canon, EOS, DIGIC, PIXMA, PowerShot and REALIS are registered trademarks and imagePROGRAF is a trademark of Canon Inc. in the United States, and may also be registered trademarks or trademarks in other countries. IMAGEANYWARE is a registered trademark of Canon. All other products and brand names are registered trademarks, trademarks or service marks of their respective owners.